ROYAL
GREENWICH OBSERVATORY
BULLETINS

Number 14

Photoheliographic Results 1956

LONDON: HER MAJESTY'S STATIONERY OFFICE
1959

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Photoheliographic Results, 1956

Herstmonceux Castle
Hailsham, Sussex

R. v. d. R. Woolley
Astronomer Royal

LONDON: HER MAJESTY'S STATIONERY OFFICE
1959

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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.

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 67½ feet, the diameter of the Sun's image at the secondary focus being approximately 7½ 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 7½ 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 366 days in 1956, those finally selected for measurement being supplied by the different observatories as under:

Herstmonceux	280
Cape	85
Kodaikanal	1
Total	366

The names of the measurers of the photographs for the year 1956 were as follows:

H. Barton P. A. Wayman N. S. C. Rhodes
P. S. Laurie A. S. Milsom

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 1/250th 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* 1956, page C 7.

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 formulae 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°45′, the longitude of the ascending node of the Sun's equator on the ecliptic for 1956.0 to be 75°08.′8, 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_o and ϕ are the heliographic latitudes and L_o and λ the heliographic longitudes of the Earth and the spot respectively,

$$\sin\phi = \cos\rho \sin B_o + \sin\rho \cos B_o \cos\chi$$

$$\sin(L_o - \lambda) = \sin\chi \sin\rho \sec\phi$$

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. 346 of the *Nautical Almanac* for 1956.

§2. *General Catalogue of Groups of Sunspots for* 1956, page C 63.

This catalogue first contains particulars of every group of sunspots which lasted for two or more days during 1956. The group numbers are in continuation of those given in 1955 and previous years. The table includes an indication of those groups which may be considered to be members of 'recurrent series' of groups, as previously contained in Ledger I of the *Greenwich Photo-Heliographic Results* for 1955.

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* 1956, page C 79.

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 1956. Similar annual mean values are also given.

Ledgers I and II and Revival catalogue of the superseded *Greenwich Photo-Heliographic Results* are omitted, but reference is made to recurrent groups in the General Catalogue of Sunspots.

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 1956

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR 1956

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 *Greenwich Photo-Heliographic Results* for 1955. 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 umbrae 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 Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Jan. 1.604		(+2.2)	(77.8)	(− 3.1)		
17314	.885	296.3	136.1	+21.5	31	118
17315	.499	336.7	90.2	+24.1	48	320
17316	.381	194.3	83.7	−24.6	0	7
17318	.554	130.8	50.6	−23.9	22	115
Jan. 2.420		(+1.8)	(67.1)	(− 3.2)		
17314	.955	293.4	136.9	+21.2	8	45
17315	.580	322.5	89.8	+24.3	55	259
17316	.443	213.4	82.6	−24.7	0	7
17318	.434	144.7	51.3	−23.7	15	113
Jan. 3.401		(+1.3)	(54.2)	(− 3.3)		
17315	.707	311.1	90.0	+24.9	34	90
17319	.569	327.9	73.7	+25.6	1	8
17320	.520	346.1	62.2	+26.9	0	6
17318	.343	174.7	52.2	−23.1	17	74
17321	.519	119.6	26.0	−17.7	7	45
Jan. 4.598		(+0.7)	(38.4)	(− 3.4)		
17315	.839	302.7	89.3	+24.8	19	145
17319	.720	311.0	75.2	+25.4	3	22
17320	.637	324.4	63.1	+28.0	1	8
17318	.396	211.1	51.2	−23.0	8	40
17322	.390	188.4	42.0	−26.0	7	66
17321	.312	140.7	26.5	−17.2	6	28
17323	.881	116.9	338.4	−25.1	0	4
Jan. 5.474		(+0.3)	(26.9)	(− 3.5)		
17315	.938	297.8	92.5	+24.5	16	86
17319	.834	304.3	76.6	+25.7	2	10
17318	.512	229.3	51.7	−22.6	8	56
17322	.449	209.4	41.1	−26.4	10	48
17321	.243	178.3	25.5	−17.5	11	49
Jan. 6.471		(−0.2)	(13.7)	(− 3.6)		
17315	.986	295.2	91.3	+24.1	0	38
17318	.659	238.1	50.8	−22.5	8	43
17322	.568	223.2	39.6	−27.6	5	21
17321	.319	223.1	26.8	−16.9	11	80
17324	.867	108.2	314.2	−17.6	4	13
17325	.983	66.1	297.0	+22.6	24	202
Jan. 7.286		(−0.6)	(3.0)	(− 3.7)		
17318	.769	242.5	50.7	−23.2	5	23
17322	.673	232.0	39.5	−27.4	0	3
17321	.450	239.1	26.7	−16.7	13	75
17324	.772	109.0	313.5	−16.9	11	63
17325	.939	64.0	296.9	+22.8	19	102
17326	.952	115.6	291.3	−25.5	0	13
Jan. 8.523		(−1.2)	(346.7)	(− 3.8)		
17327	.960	245.7	60.3	−24.4	7	23
17318	.905	245.6	50.5	−23.6	7	41
17321	.671	248.8	27.4	−16.9	9	41
17323	.342	160.4	339.6	−22.5	5	30
17324	.569	115.2	314.2	−17.2	7	33
17325	.831	58.8	296.3	+23.0	20	134
17326	.826	118.4	293.4	−25.4	9	44
Jan. 9.293		(−1.5)	(336.6)	(− 3.9)		
17327	.992	245.8	60.3	−24.5	0	80
17321	.807	252.1	29.7	−16.7	2	11
17323	.324	187.4	339.2	−22.5	3	11
17324	.462	119.7	311.9	−16.7	2	12
17325	.743	53.6	296.2	+23.1	20	115
17326	.702	122.5	295.9	−25.1	6	36
17328	.971	119.3	260.6	−29.3	27	141
Jan.10.487		(−2.1)	(320.8)	(− 4.1)		
17325	.603	41.5	295.2	+23.1	22	119
17326	.539	133.3	295.2	−25.3	15	101
17328	.899	121.1	258.7	−29.6	21	120
Jan.11.498		(−2.6)	(307.5)	(− 4.2)		
17326	.405	152.4	295.6	−25.0	21	155
17325	.492	23.1	295.5	+22.7	21	96
17328	.802	124.2	258.0	−29.5	25	133
Jan.12.261		(−3.0)	(297.5)	(− 4.2)		
17323	.703	238.8	338.7	−24.5	4	35
17326	.359	177.1	296.4	−25.1	71	252
a	.349	182.9	298.6	−24.5	55	166
b	.389	166.6	292.9	−26.4	16	86
17325	.456	4.3	295.4	+22.8	27	143
17328	.714	128.6	257.7	−29.6	28	136

Group 17319. Jan. 3 - 5. One or two tiny spots.
Group 17320. Jan. 3 - 4. A tiny spot.
Group 17321. Jan. 3 - 9. Two or three small spots.
Group 17322. Jan. 4 - 7. One or two small spots.
Group 17323. Jan. 4 - 13. Intermittent. Small variable spots.
Group 17324. Jan. 6 - 15. Intermittent. A few small spots.
Group 17325. Jan. 6 - 18. A small regular spot with a distant companion on January 10.
Group 17326. Jan. 7 - 18. A few small spots developing into a stream of normal type by January 13. From January 16 only the leader and follower remain.
Group 17327. Jan. 8 - 9. A small spot.
Group 17328. Jan. 9 - 19. A regular spot until January 15, when a few small spots appear in the rear to form a stream for two days. On January 18 there is a compact stream, which soon dies out.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Jan.13.382		(−3.5)	(282.7)	(− 4.4)		
17323	.840	243.7	338.2	−24.3	10	53
17324	.557	247.0	314.8	−16.3	8	52
17326	.412	209.5	295.6	−25.2	89	378
a	.430	216.2	298.8	−24.4	43	178
b	.400	199.7	291.3	−26.4	34	128
17325	.498	336.5	295.1	+22.7	20	114
17328	.574	139.7	257.4	−29.9	16	123
17329	.981	59.6	208.1	+28.7	23	192
17330	.990	65.3	203.9	+23.6	58	343
Jan.14.305		(−3.9)	(270.6)	(− 4.5)		
1369a	.883	243.1	331.3	−25.7	0	17
17324	.708	252.3	314.9	−15.7	7	40
17326	.525	227.4	295.7	−24.8	72	403
a	.561	232.0	299.4	−24.1	35	211
b	.489	218.1	290.3	−26.8	28	136
17325	.592	320.3	294.7	+22.9	13	84
17328	.474	154.1	256.9	−29.5	19	94
17329	.939	57.6	206.6	+28.3	56	393
17330	.949	62.9	203.3	+23.9	66	446
17331	.989	69.2	191.6	+19.8	89	519
Jan.15.492		(−4.5)	(254.9)	(− 4.6)		
17332	.930	243.3	322.8	−26.5	18	65
17324	.847	253.7	312.5	−16.2	0	10
17326	.708	238.5	296.6	−25.1	43	277
a	.741	241.1	300.1	−24.2	26	160
b	.648	232.9	290.1	−26.7	11	76
17325	.736	307.7	294.0	+23.1	16	94
17328	.425	179.2	254.5	−29.7	26	110
17329	.860	53.1	203.8	+28.2	122	532
17330	.849	58.3	203.0	+23.6	98	422
17331	.927	66.9	190.4	+19.4	206	1088
Jan.16.495		(−5.0)	(241.7)	(− 4.7)		
17332	.986	243.2	323.1	−27.2	35	149
17326	.832	242.4	296.2	−25.4	24	178
a	.864	244.2	300.3	−24.6	17	120
b	.779	239.0	290.0	−26.8	7	58
17325	.847	301.2	293.5	+23.1	16	97
17328	.461	203.6	253.9	−29.5	17	80
17329	.753	46.0	204.1	+27.8	98	640
a	.734	44.0	206.6	+27.9	41	237
17330	.738	51.6	202.7	+23.6	87	482
17331	.830	62.2	190.6	+19.8	259	1543
Jan.17.453		(−5.4)	(229.1)	(− 4.8)		
17326	.926	244.4	296.5	−25.5	8	76
a	.943	245.3	299.5	−24.8	6	58
b	.884	241.8	289.8	−27.0	2	18
17325	.929	297.3	292.8	+23.1	23	105
17328	.579	222.3	255.6	−29.5	7	34
17329	.647	33.9	205.1	+28.0	123	689
a	.630	32.2	206.9	+27.6	67	397
17330	.625	41.5	202.3	+23.6	94	456
17331	.717	55.6	190.2	+20.1	324	1646
17333	.972	63.2	156.7	+24.6	13	94
17334	.992	64.8	149.5	+24.2	34	329
Jan.18.507		(−5.9)	(215.2)	(− 4.9)		
17326	.985	244.9	296.1	−25.5	0	32
a	.993	246.1	299.7	−24.3	0	24
b	.972	243.2	292.0	−27.1	0	8
17325	.986	294.7	292.2	+23.3	6	76
17328	.662	230.1	250.6	−29.1	22	138
17329	.565	15.5	205.4	+28.0	121	581
a	.556	11.7	207.9	+28.0	66	324
17330	.524	24.0	201.8	+23.7	81	519
17331	.593	45.1	188.7	+20.2	298	1691
17333	.903	59.3	156.5	+24.9	20	84
17334	.965	62.5	144.8	+24.8	113	663
Jan.19.500		(−6.4)	(202.2)	(− 5.0)		
17328	.769	235.7	248.6	−29.1	8	44
17329	.545	335.2	205.1	+27.8	79	516
a	.548	350.0	208.3	+27.6	55	334
17330	.479	1.2	201.6	+23.5	96	501
17335	.244	171.3	200.0	−18.9	2	9
17331	.477	27.7	188.6	+20.0	318	1597
17333	.808	54.2	156.2	+24.6	14	55
17334	.893	59.0	145.0	+24.6	127	737
Jan.20.486		(−6.8)	(189.2)	(− 5.1)		
17329	.592	336.0	204.9	+27.7	71	444
a	.608	331.2	208.4	+27.3	57	302
17330	.517	338.2	201.2	+23.6	93	510
17335	.322	204.2	197.3	−22.0	2	19
17331	.426	1.4	188.6	+20.0	293	1597
17333	.700	45.4	155.9	+25.1	8	34
17334	.804	52.6	144.3	+25.6	148	843

Group 17329. Jan. 13 - 24. A stream in which the leader, a regular spot, is the only stable component. It is preceded from January 16 by tiny spots for a few days.
Group 17330. Jan. 13 - 25. A stable regular spot.
Group 17331. Jan. 14 - 26. A large stream, in which the principal component, a large composite spot, is in the centre. There is a small regular spot leading the stream from January 18-23.
Group 17332. Jan. 15 - 16. Two or three small spots.
Group 17333. Jan. 17 - 21. A small spot.
Group 17334. Jan. 17 - 30. A composite spot, followed by many small variable companions until January 28.
Group 17335. Jan. 19 - 20. One or two tiny spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Jan.21.372		(-7.2)	(177.5)	(- 5.1)		
17329	.679	321.9	205.6	+27.7	88	447
a	.700	319.1	208.5	+27.5	77	356
17330	.599	322.6	200.8	+23.6	87	478
17331	.463	336.8	188.7	+20.1	362	1813
17333	.601	34.8	155.4	+24.8	6	20
17334	.691	44.3	145.4	+25.3	153	762
1369b	.977	56.0	105.5	+31.7	9	60
Jan.22.258		(-7.6)	(165.9)	(- 5.2)		
17329	.783	311.8	206.9	+27.5	33	242
a	.792	311.0	208.1	+27.4	27	207
17330	.704	311.8	200.7	+23.5	70	439
17331	.561	318.2	189.2	+19.9	358	1950
17334	.588	32.0	145.9	+25.0	111	621
17336	.997	105.8	79.3	-16.1	12	49
Jan.23.284		(-8.1)	(152.3)	(- 5.3)		
17329	.884	304.9	206.8	+27.3	35	186
a	.886	304.8	207.1	+27.3	35	179
17330	.823	303.7	200.5	+23.6	81	434
17331	.698	306.3	189.0	+20.1	372	1877
17334	.515	12.3	145.4	+24.8	93	541
17337	.908	49.7	96.8	+33.0	2	15
17336	.943	106.9	81.4	-17.6	77	392
Jan.24.478		(-8.6)	(136.6)	(- 5.4)		
17329	.967	300.0	206.7	+27.2	17	116
a	.967	300.0	206.7	+27.2	17	116
17330	.931	297.6	200.2	+23.2	81	385
17331	.844	298.0	188.9	+20.1	323	1958
17334	.524	344.4	145.5	+24.8	104	572
17338	.715	19.8	119.0	+37.0	0	6
17336	.833	107.3	80.4	-17.3	72	438
17339	.935	60.4	72.9	+25.1	0	13
Jan.25.377		(-9.0)	(124.8)	(- 5.5)		
17330	.982	295.1	200.0	+23.3	80	435
17331	.926	294.1	188.6	+19.8	267	1700
17334	.593	328.0	145.0	+25.0	95	533
17338	.687	7.0	118.8	+37.4	5	19
1369c	.530	31.2	107.7	+21.7	2	13
17336	.698	109.1	81.3	-17.2	57	345
17339	.866	56.0	72.2	+25.7	21	82
Jan.26.416		(-9.5)	(111.1)	(- 5.6)		
17331	.981	292.1	186.7	+20.4	198	818
17334	.708	314.3	144.9	+24.9	87	506
17336	.520	114.4	81.5	-17.2	53	262
17339	.763	49.7	71.2	+25.3	20	88
Jan.27.380		(-9.9)	(98.4)	(- 5.7)		
17334	.819	306.5	144.9	+25.2	103	398
17336	.349	126.3	81.3	-17.3	42	220
17339	.660	40.7	70.2	+24.9	25	101
Jan.28.282		(-10.3)	(86.5)	(- 5.7)		
1369d	.968	251.9	161.3	-17.7	0	8
17334	.899	301.9	143.9	+25.3	64	434
17336	.217	159.6	82.0	-17.3	35	182
17339	.573	27.8	69.4	+24.8	23	126
Jan.29.302		(-10.7)	(73.1)	(- 5.8)		
17334	.966	298.1	143.2	+25.1	72	329
17336	.252	215.5	81.9	-17.5	26	139
17339	.517	10.4	67.2	+24.6	22	110
17340	.985	125.0	351.3	-35.4	11	76
Jan.30.284		(-11.1)	(60.2)	(- 5.9)		
17334	.997	295.9	142.2	+25.1	12	128
17337	.806	319.9	98.6	+33.4	7	39
17336	.411	238.9	81.8	-17.7	12	61
17339	.527	347.1	67.6	+24.9	13	61
17340	.934	126.3	352.1	-35.9	18	75
17341	.965	108.3	344.6	-19.1	8	32
Jan.31.281		(-11.5)	(47.0)	(- 5.9)		
17337	.897	312.7	99.4	+33.9	0	36
17336	.586	247.1	81.4	-18.0	11	48
17340	.860	128.7	351.2	-36.0	24	94
17341	.884	109.1	344.8	-19.6	19	78
17342	.991	58.8	329.6	+29.7	14	90
Feb. 1.407		(-12.0)	(32.2)	(- 6.0)		
17336	.768	251.6	82.0	-17.9	3	20
17339	.737	310.9	69.6	+24.0	3	40

continued

Group 17336. Jan.22-Feb.2. A pair of spots, of which only one remains by January 31.
Group 17337. Jan. 23 - 31. Intermittent. A tiny spot on January 23; two or three on the other days.
Group 17338. Jan. 24 - 25. A tiny spot.
Group 17339. Jan.24-Feb.4. A stream of small spots, not seen on January 31, which is growing rapidly as it approaches the limb.
Group 17340. Jan.29-Feb.6. A small, slowly-diminishing regular spot.
Group 17341. Jan.30-Feb.6. A small, slowly-diminishing regular spot.
Group 17342. Jan.31-Feb.10. A pair of widely-separated spots, slowly breaking up and dying out before reaching the limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Feb. 1.407 *continued*						
17343	.702	44.6	359.4	+24.8	9	55
17340	.748	134.1	350.8	−35.9	18	78
17341	.738	111.0	345.4	−19.4	14	74
17342	.957	56.0	325.9	+30.1	85	487
17344	.922	117.0	325.1	−27.1	0	5
Feb. 2.420		(−12.4)	(18.9)	(− 6.1)		
17336	.880	252.8	80.8	−18.0	0	4
17339	.890	299.6	75.8	+22.8	31	231
17343	.591	29.4	0.3	+25.1	6	56
17340	.644	142.4	350.0	−36.0	17	73
17341	.559	114.6	346.6	−18.5	10	44
17342	.887	51.7	325.8	+29.7	93	633
Feb. 3.461		(−12.8)	(5.2)	(− 6.2)		
17339	.962	296.6	74.7	+23.5	74	576
17345	.528	341.2	15.9	+23.8	1	8
17343	.534	9.6	359.6	+25.5	8	35
17340	.550	156.4	349.4	−36.1	10	49
17341	.370	126.4	347.0	−18.5	9	36
17342	.789	43.8	326.3	+29.9	75	391
17344	.729	121.6	321.2	−26.9	0	3
Feb. 4.406		(−13.2)	(352.7)	(− 6.2)		
17339	.990	296.6	70.3	+25.1	0	120
17345	.611	323.2	16.1	+23.5	0	7
17343	.528	346.2	0.6	+24.6	2	10
17340	.504	173.8	348.9	−36.1	6	28
17341	.234	156.2	347.0	−18.5	7	17
17342	.702	35.0	325.2	+29.5	59	370
17344	.583	128.2	322.1	−26.4	0	2
1370a	.627	119.2	312.2	−32.9	1	10
Feb. 5.316		(−13.6)	(340.8)	(− 6.3)		
17340	.510	191.8	348.2	−36.1	2	10
17341	.237	205.0	346.8	−18.7	4	11
17342	.637	22.9	324.3	+29.7	34	235
Feb. 6.309		(−14.0)	(327.7)	(− 6.4)		
17340	.575	208.6	347.6	−36.2	0	1
17341	.377	234.8	346.6	−18.5	2	11
17342	.589	5.4	324.1	+29.4	57	320
17346	.986	105.3	246.2	−16.1	23	140
Feb. 7.432		(−14.4)	(312.9)	(− 6.4)		
17342	.612	347.7	321.6	+30.3	45	223
17346	.919	105.0	245.6	−16.3	16	96
Feb. 8.088		(−14.6)	(304.3)	(− 6.5)		
17342	.648	336.1	321.9	+30.1	31	172
17346	.854	104.8	245.4	−16.0	20	101
Feb. 9.289		(−15.1)	(288.4)	(− 6.5)		
17342	.754	320.1	322.2	+29.9	11	59
17347	.469	13.9	281.5	+20.5	20	82
17346	.691	106.9	245.0	−16.3	14	94
Feb.10.369		(−15.5)	(274.2)	(− 6.6)		
17342	.893	307.3	328.3	+28.9	4	20
17347	.481	344.7	282.0	+21.0	8	47
17346	.509	110.9	244.6	−16.2	16	90
17348	.978	69.2	199.6	+18.7	0	26
17349	.986	66.0	197.8	+22.2	58	307
Feb.11.424		(−15.9)	(260.3)	(− 6.6)		
17346	.306	123.7	245.0	−16.1	14	85
17350	.859	109.7	201.0	−20.2	29	144
17348	.909	65.5	199.5	+19.0	2	20
17349	.928	62.6	197.5	+22.3	49	298
17351	.980	66.9	185.5	+21.0	234	1729
Feb.12.486		(−16.3)	(246.3)	(− 6.7)		
17346	.164	169.9	244.6	−16.0	11	58
1370b	.609	124.3	212.5	−25.7	3	11
17350	.723	111.9	200.8	−20.4	25	164
17349	.836	57.1	196.9	+22.7	59	308
17351	.921	63.3	184.5	+21.3	287	1579
17352	.991	68.7	167.3	+19.9	61	455
17353	.989	108.8	163.3	−19.5	13	121
a	.989	108.8	163.3	−19.5	13	121
Feb.13.405		(−16.6)	(234.3)	(− 6.7)		
17346	.239	227.4	244.8	−15.8	13	36
17350	.580	115.6	200.6	−20.1	13	158
17349	.732	50.2	196.9	+22.6	86	304
17351	.835	58.3	184.6	+21.7	188	1714

continued

Group 17343. Feb. 1 - 4. One or two small spots.
Group 17344. Feb. 1 - 4. A tiny spot, not seen on February 2.
Group 17345. Feb. 3 - 4. A tiny spot.
Group 17346. Feb. 6 - 16. A small, diminishing regular spot.
Group 17347. Feb. 9 - 10. A pair of small spots.
Group 17348. Feb. 10 - 11. A small spot.
Group 17349. Feb. 10 - 22. A stable regular spot, with a companion on February 21.
Group 17350. Feb. 11 - 21. A small spot, with an occasional companion.
Group 17351. Feb. 11 - 23. A large complex spot with numerous nuclei, slowly taking stream formation as it reaches the limb. It was in this group that a large flare occured on February 23, which was associated with an unusual increase of cosmic radiation.
Group 17352. Feb. 12 - 22. A stable regular spot which becomes absorbed by Group 17355 on February 23.
Group 17353. Feb. 12 - 26. A large stream of normal type, developing from a single spot seen at the east limb. By February 24 only the leader and follower remain.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Feb.13.405	*continued*					
17352	.950	66.2	166.8	+20.1	141	619
17353	.951	109.6	161.3	−20.7	57	361
a	.933	109.0	164.6	−20.1	48	215
17354	.979	69.6	159.3	+18.3	17	84
Feb.14.377		(−16.9)	(221.5)	(− 6.8)		
17346	.416	246.2	244.7	−15.9	6	21
17350	.420	124.5	200.0	−20.1	16	92
17349	.622	38.8	196.6	+22.8	67	300
17351	.720	50.8	184.8	+21.6	208	1563
17355	.820	56.6	173.9	+22.3	0	10
17352	.872	62.1	166.5	+20.2	127	629
17353	.862	109.8	161.8	−20.5	91	421
a	.825	109.4	165.9	−19.8	62	231
17354	.932	67.0	156.9	+18.5	54	286
17356	.986	67.2	144.9	+21.0	20	102
17357	.994	110.0	135.9	−20.5	75	413
Feb.15.294		(−17.2)	(209.4)	(− 6.8)		
17358	.852	304.0	260.0	+24.2	4	12
17346	.580	252.4	244.3	−15.7	2	12
1370c	.471	10.2	204.3	+20.7	2	13
17350	.268	145.8	200.2	−19.4	12	42
17349	.536	22.8	196.4	+22.9	50	257
17351	.620	40.0	184.0	+22.1	257	1443
17355	.713	51.9	172.7	+20.6	30	96
17352	.770	56.4	166.4	+20.2	105	523
17353	.749	111.3	161.5	−20.4	94	586
a	.693	112.4	166.5	−20.3	43	239
b	.807	112.0	156.0	−21.7	29	223
17354	.856	64.6	155.4	+17.6	62	366
17356	.955	65.1	141.2	+21.3	58	294
17359	.970	61.0	139.0	+25.9	26	103
17357	.964	110.0	133.6	−21.0	121	644
Feb.16.347		(−17.6)	(195.5)	(− 6.9)		
17358	.938	298.9	259.3	+24.0	0	10
17360	.824	296.5	245.9	+17.2	2	10
17346	.747	254.8	243.8	−15.9	0	8
17350	.232	197.7	199.8	−19.6	7	29
17349	.493	359.0	196.0	+22.5	65	294
17351	.522	22.3	183.2	+22.0	344	1734
17355	.578	38.2	173.1	+20.5	54	304
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Feb.16.347	*continued*					
17352	.637	46.8	166.0	+19.8	114	536
17353	.604	116.4	160.2	−21.2	204	1136
a	.530	119.8	166.1	−21.2	77	379
b	.682	115.4	154.0	−22.1	69	383
17354	.731	57.1	155.5	+18.1	76	357
17356	.880	61.2	139.9	+21.2	139	550
17359	.902	57.3	138.4	+25.5	30	144
17357	.877	110.1	133.9	−20.9	110	511
Feb.17.389		(−17.9)	(181.8)	(− 6.9)		
17360	.910	293.1	243.1	+17.7	0	5
17350	.366	232.3	199.6	−19.4	5	22
17349	.532	334.8	195.9	+22.0	65	270
17351	.481	356.1	183.8	+21.7	244	1393
17355	.475	16.9	173.4	+20.1	111	503
1370d	.606	20.8	167.8	+27.6	0	6
17352	.517	29.7	166.1	+19.9	115	516
17353	.427	126.4	160.3	−21.0	252	1281
a	.367	133.5	165.3	−21.2	113	537
b	.517	123.3	154.0	−22.6	81	461
17354	.582	44.8	156.4	+18.1	60	301
17356	.784	54.1	138.6	+22.3	128	692
17359	.805	51.1	138.1	+25.3	26	134
17357	.741	111.7	134.6	−20.6	115	505
Feb.18.420		(−18.3)	(168.2)	(− 7.0)		
17350	.545	244.3	199.5	−19.6	5	17
17349	.638	317.3	195.8	+21.7	42	278
17351	.525	335.0	181.9	+21.5	264	1438
17355	.459	350.3	172.9	+19.8	132	758
17352	.454	4.9	165.8	+19.8	93	506
17353	.301	150.9	159.2	−22.1	285	1532
a	.261	168.3	164.9	−21.8	115	657
b	.372	139.8	153.1	−23.2	113	630
17354	.460	22.9	157.4	+18.1	34	260
17356	.663	44.5	138.2	+22.1	125	737
17359	.694	41.5	137.8	+25.2	36	164
17357	.586	115.9	134.1	−20.6	114	468
Feb.19.424		(−18.6)	(155.0)	(− 7.0)		
17350	.718	249.1	200.3	−19.8	1	6
17349	.760	306.7	195.8	+21.7	60	279
17351	.624	319.0	181.1	+21.8	175	1058
					continued	

Group 17354. Feb. 13 - 25. A stream, led by a regular spot which alone remains after February 20.

Group 17355. Feb. 14 - 24. A large complex stream, developing from a tiny spot when first seen. An unusual feature of this group is that it absorbs the regular spot (Group 17352) by February 23.

Group 17356. Feb. 14 - 26. A stream of numerous small spots which coalesce into two composite spots by February 21. The larger of the two, the follower, is the longer-lived.

Group 17357. Feb. 14 - 27. A regular spot, followed by a few small variable companions until February 22.

Group 17358. Feb. 15 - 16. A tiny spot.

Group 17359. Feb. 15 - 26. A small stable regular spot which slowly approaches and finally touches the rear part of Group 17356.

Group 17360. Feb. 16 - 17. A tiny spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Feb.19.424	*continued*					
17355	.536	327.8	172.7	+20.2	165	1106
17352	.484	338.8	165.7	+19.8	95	482
17353	.277	195.1	159.5	−22.4	178	1106
a	.307	211.8	165.0	−22.0	96	584
b	.287	171.6	152.4	−23.5	64	428
17354	.426	352.1	158.5	+17.9	28	164
1370e	.607	356.6	157.4	+30.1	1	8
17356	.545	27.8	139.2	+22.0	128	683
17359	.591	27.3	137.7	+24.8	30	127
17357	.397	126.9	135.3	−20.4	82	436
17361	.951	109.4	82.0	−20.5	6	35
17362	.980	64.4	81.0	+23.3	49	236
Feb.20.384		(−18.9)	(142.4)	(− 7.0)		
17350	.832	252.3	198.9	−18.5	2	14
17349	.862	300.1	195.5	+21.5	47	245
17351	.751	306.6	182.5	+21.2	203	1393
17355	.651	312.7	172.9	+20.1	156	1263
17352	.578	320.3	165.4	+19.9	93	459
17354	.504	326.5	159.3	+18.1	29	115
17353	.378	225.3	159.2	−22.1	179	1157
a	.449	232.7	165.0	−22.2	102	660
b	.315	207.4	151.4	−23.1	66	411
17356	.491	6.1	139.2	+22.1	140	917
17359	.536	8.5	137.4	+24.9	25	115
17357	.260	151.7	134.9	−20.1	92	469
17361	.863	109.7	82.5	−20.5	7	34
17362	.924	61.1	80.9	+23.3	68	297
Feb.21.493		(−19.2)	(127.7)	(− 7.1)		
17350	.948	252.3	200.2	−19.0	3	20
17349	.947	295.2	194.2	+21.1	63	293
17351	.858	300.9	180.0	+21.8	139	1113
17355	.787	301.9	172.7	+19.6	201	1244
17352	.719	306.8	165.3	+19.9	101	415
17353	.563	240.6	159.5	−22.0	186	931
a	.626	242.9	164.6	−22.3	111	536
b	.460	232.2	150.9	−22.9	63	323
17354	.644	308.8	159.4	+17.7	24	109
17356	.527	339.8	139.0	+22.6	137	834
17359	.555	344.2	137.3	+25.1	19	102
17357	.254	207.0	134.7	−20.1	86	478
17361	.746	111.3	80.0	−20.5	3	22
17362	.834	55.8	79.2	+23.3	93	399
17363	.877	114.5	66.4	−24.8	0	4
17364	.946	60.4	62.7	+25.0	20	67
17365	.970	118.8	50.1	−29.6	52	274
1956		°	°	°		
Feb.22.465		(−19.5)	(114.9)	(− 7.1)		
17349	.993	292.5	194.4	+21.2	53	322
17351	.947	295.2	181.3	+21.1	155	1072
17355	.875	297.9	170.2	+20.2	180	1116
17352	.835	299.7	165.2	+20.0	83	343
17354	.773	300.1	159.3	+17.8	17	144
17353	.705	245.3	158.5	−22.3	158	872
a	.767	246.6	164.3	−22.4	96	524
b	.612	242.1	150.6	−22.4	54	290
17356	.617	322.7	138.7	+22.8	150	855
17359	.629	327.3	136.9	+25.3	22	106
17357	.389	233.5	134.3	−20.1	92	447
17361	.602	116.5	79.7	−21.4	6	32
17362	.730	48.3	78.7	+23.3	97	513
17364	.872	55.8	62.3	+25.1	18	106
17366	.889	64.5	57.1	+18.8	0	14
17365	.899	119.1	51.0	−29.2	35	188
Feb.23.393		(−19.8)	(102.7)	(− 7.1)		
17351	.986	292.0	179.6	+20.2	114	797
17355	.934	295.0	166.9	+20.2	214	1234
17354	.875	295.0	158.9	+17.8	19	110
17353	.827	247.6	158.3	−22.5	160	824
a	.876	248.6	164.1	−22.1	124	527
b	.749	245.7	150.3	−22.8	34	289
17356	.727	311.4	138.9	+23.0	131	831
17359	.724	316.0	136.4	+25.4	20	117
17357	.551	244.1	134.4	−19.9	95	447
17361	.403	126.9	82.7	−20.6	5	31
17362	.621	36.0	79.3	+23.6	95	669
17364	.774	49.6	62.4	+24.6	64	231
17366	.789	60.7	56.6	+17.8	5	23
17365	.806	120.8	50.7	−28.8	21	122
17367	.959	104.8	28.1	−16.2	7	42
Feb.24.385		(−20.1)	(89.7)	(− 7.1)		
17355	.985	292.0	166.1	+20.1	110	846
17354	.955	291.0	158.8	+17.6	25	174
17353	.927	248.9	158.5	−22.2	204	785
a	.956	249.1	163.8	−22.0	173	575
b	.865	247.7	149.7	−22.8	31	210
17356	.831	304.0	138.0	+23.0	97	707
17359	.828	307.5	136.2	+25.4	21	117
17357	.708	248.9	134.1	−19.9	85	473
17368	.271	187.7	91.9	−22.6	16	57
17361	.262	153.9	82.7	−20.5	7	14
17362	.538	17.6	79.5	+23.8	103	571
17364	.667	38.9	62.3	+24.9	53	291
17366	.637	50.8	58.6	+17.6	3	10
17365	.690	125.2	49.8	−28.9	18	130
17367	.872	104.6	28.5	−16.2	15	35

Group 17361. Feb. 19 - 27. A small spot, with a distant companion on February 21 and 22.
Group 17362. Feb.19-Mar.2. A composite spot, with small changing companions until February 27.
Group 17363. Feb.21-Mar.1. A tiny spot on February 21. Nothing is then seen until February 26 when a pair of spots appears.
Group 17364. Feb.21-Mar.2. A few spots with a brief maximum on February 24.
Group 17365. Feb.21-Mar.2. A very variable group of small spots, not seen on March 1.
Group 17366. Feb. 22 - 25. Two or three small spots.
Group 17367. Feb. 23 - 28. One or two small spots, not seen on February 27.
Group 17368. Feb.24-Mar.1. A few small spots, appearing suddenly near the central meridian.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Feb.25.370		(−20.4)	(76.7)	(− 7.1)		
17354	.996	288.6	158.7	+17.6	11	106
17353	.985	248.6	158.5	−22.2	61	483
a	.994	248.5	162.3	−22.0	40	338
b	.950	248.6	149.6	−22.5	21	145
17356	.920	299.1	137.5	+23.2	108	530
17359	.917	302.1	136.0	+25.7	16	100
17357	.841	251.0	134.2	−19.8	97	455
17368	.375	224.8	93.2	−22.2	19	99
17361	.252	201.4	82.3	−20.6	10	31
17362	.514	357.0	78.4	+23.6	104	607
17364	.571	24.4	61.8	+24.3	42	204
17366	.553	38.4	55.5	+19.0	7	44
17365	.553	133.8	49.7	−28.8	11	53
17367	.745	105.5	28.5	−16.3	3	16
17369	.948	61.8	10.9	+23.8	14	60
17370	.951	109.3	3.5	−20.5	3	24
Feb.26.397		(−20.7)	(63.2)	(− 7.2)		
17353	.994	248.3	148.8	−22.2	18	136
b	.994	248.3	148.8	−22.2	18	136
17356	.979	296.7	136.5	+24.2	22	132
17359	.977	298.7	135.5	+26.0	21	101
17357	.936	251.5	133.6	−19.8	80	482
17368	.542	240.6	93.7	−22.0	12	64
17361	.388	232.5	82.3	−20.4	7	26
17362	.562	334.9	78.2	+23.5	88	601
17363	.306	198.5	69.3	−24.0	18	92
17364	.524	3.1	61.4	+24.2	23	112
17365	.479	145.6	45.1	−30.1	6	39
17367	.603	111.7	27.1	−18.7	6	36
17369	.889	57.7	7.8	+24.3	0	4
17370	.854	110.0	4.3	−20.8	4	12
17371	.973	105.2	345.4	−16.4	41	213
Feb.27.367		(−20.9)	(50.4)	(− 7.2)		
17357	.987	250.7	132.8	−20.1	85	430
17368	.708	247.0	94.6	−21.3	11	57
17361	.552	243.3	82.0	−20.5	2	13
17362	.665	319.3	78.6	+23.8	85	470
17363	.421	222.3	68.5	−25.0	24	122
17364	.525	343.3	59.8	+23.0	8	75
17365	.395	166.5	44.3	−29.8	7	82
17372	.490	133.1	27.0	−26.1	2	15
17369	.735	50.9	12.6	+21.9	1	19
17370	.728	112.2	4.4	−21.0	3	9
17371	.899	104.9	345.7	−16.5	41	196
17373	.983	63.9	335.6	+23.9	6	89
Feb.28.594		(−21.3)	(34.2)	(− 7.2)		
17368	.871	249.3	95.1	−21.5	0	18
1370f	.760	238.9	81.5	−28.0	3	10
17362	.804	307.9	78.2	+24.5	77	371
17363	.594	237.1	67.4	−24.8	23	124
17374	.610	308.9	63.7	+16.2	9	38
17364	.622	321.9	58.7	+22.7	14	60
17365	.394	197.5	42.0	−29.1	13	65
17367	.215	148.1	27.4	−17.6	3	15
17372	.337	157.1	25.9	−25.1	12	55
17369	.594	35.7	12.3	+22.1	24	116
17371	.747	105.9	345.8	−16.6	36	175
17373	.917	59.7	334.2	+24.1	33	153
17375	.930	112.3	324.8	−23.4	61	318
Feb.29.530		(−21.5)	(21.9)	(− 7.2)		
17368	.954	250.0	95.6	−21.2	0	7
17362	.889	301.7	77.5	+23.9	64	370
17363	.736	242.0	67.7	−25.3	9	36
17374	.745	299.7	64.1	+16.3	49	199
17364	.729	311.5	58.2	+23.1	13	58
17365	.496	215.7	41.4	−30.5	6	31
17372	.330	192.5	26.4	−25.9	13	59
17369	.517	17.3	12.4	+22.4	18	80
17371	.587	108.5	346.5	−16.6	24	127
17373	.826	53.8	335.1	+24.3	48	220
17375	.829	112.9	326.1	−22.9	129	606
Mar. 1.302		(−21.7)	(11.7)	(− 7.2)		
17368	.990	249.5	95.3	−21.2	0	21
17362	.951	298.8	77.9	+24.5	48	294
17363	.812	244.3	65.3	−25.0	7	32
17374	.842	294.7	64.3	+16.3	47	336
17364	.844	304.5	61.1	+23.9	4	12
17372	.422	215.0	27.4	−27.1	4	59
17369	.501	358.4	12.6	+22.7	10	58
17371	.433	114.0	347.4	−16.7	25	144
17373	.730	46.7	336.2	+24.1	33	261
17375	.712	114.9	327.5	−22.6	120	850
17376	.961	54.4	305.7	+31.3	6	45
Mar. 2.502		(−22.0)	(355.9)	(− 7.2)		
17362	.993	294.2	75.3	+22.9	8	37
17374	.947	289.9	63.7	+16.1	45	285
17364	.907	297.6	55.3	+21.3	0	13
17365	.807	239.6	48.1	−28.6	3	26

continued

Group 17369. Feb.25-Mar.6. A few small changing spots.
Group 17370. Feb. 25 - 27. A tiny spot.
Group 17371. Feb.26-Mar.9. A small regular spot, followed by a distant companion until March 4.
Group 17372. Feb.27-Mar.3. A few small spots.
Group 17373. Feb.27-Mar.10. Variable spots, developing into a stream of normal type by March 4.
Group 17374. Feb.28-Mar.3. A stream of variable spots appearing past the central meridian.
Group 17375. Feb.28-Mar.11. A stream of normal type, the leader of which becomes a regular spot and is the longest-lived.
Group 17376. Mar. 1 - 6. A string of small spots dying out before reaching the central meridian.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Mar. 2.502	*continued*					
17372	.598	232.8	28.2	−27.3	6	16
17369	.560	334.0	11.3	+23.2	7	47
17371	.228	138.8	346.9	−16.9	23	140
17373	.609	32.2	335.1	+24.1	37	179
17375	.524	123.9	327.8	−23.3	182	1085
17376	.899	50.5	302.3	+30.7	15	66
Mar. 3.401		(−22.2)	(344.1)	(− 7.2)		
17374	.974	288.8	57.9	+16.4	0	17
17372	.710	237.8	26.6	−27.6	3	18
17369	.666	315.0	14.5	+21.8	13	74
17371	.168	189.8	345.8	−16.7	28	174
17373	.533	12.0	337.2	+24.1	51	308
17375	.382	139.6	328.5	−23.8	169	998
17377	.566	41.8	320.8	+18.2	6	28
17376	.836	45.5	300.3	+30.7	6	31
Mar. 4.461		(−22.4)	(330.1)	(− 7.2)		
17369	.776	304.6	13.1	+20.9	19	107
17371	.309	238.2	345.9	−16.3	23	132
17373	.534	348.2	337.0	+24.3	57	312
17375	.285	172.3	327.7	−23.5	177	991
17377	.454	18.6	321.4	+18.2	22	114
17376	.738	34.4	301.1	+31.1	13	44
17378	.983	54.2	258.1	+33.1	19	128
Mar. 5.357		(−22.7)	(318.3)	(− 7.2)		
17369	.870	299.5	12.4	+21.2	17	111
17371	.494	249.9	347.1	−16.1	18	100
17373	.593	330.8	336.7	+24.3	69	461
17375	.325	208.4	328.0	−23.6	124	755
17377	.438	352.3	321.8	+18.4	21	123
17376	.682	25.1	298.6	+31.3	0	20
17378	.949	50.8	256.4	+33.6	41	228
Mar. 6.304		(−22.9)	(305.8)	(− 7.2)		
17369	.947	294.3	12.5	+20.2	3	61
17371	.664	253.3	347.2	−16.4	20	107
17373	.702	316.4	337.8	+24.4	103	554
17375	.454	230.7	328.2	−23.3	113	717
17377	.499	325.7	322.9	+17.3	47	220
17376	.635	9.5	298.8	+31.5	0	6
17378	.904	47.1	253.2	+33.7	64	332
Mar. 7.518		(−23.1)	(289.8)	(− 7.2)		
17371	.839	255.5	347.3	−16.1	20	92
17373	.825	306.2	336.5	+24.3	106	641
17375	.659	241.7	329.0	−23.8	100	522
17377	.668	306.7	323.8	+17.5	35	180
17379	.245	134.8	279.4	−17.0	17	80
17378	.829	39.6	250.3	+34.1	83	560
17380	.961	114.4	214.5	−25.3	0	7
Mar. 8.354		(−23.3)	(278.8)	(− 7.2)		
17371	.925	255.3	347.3	−16.3	17	98
17373	.906	301.7	336.6	+24.6	104	568
17375	.770	245.1	328.3	−23.6	97	503
17377	.770	300.5	322.8	+17.9	36	185
17379	.170	198.9	282.1	−16.4	19	108
17378	.754	30.9	251.1	+33.8	83	429
17381	.769	47.6	239.9	+25.7	2	20
17380	.928	114.9	210.0	−25.7	0	18
Mar. 9.370		(−23.5)	(265.4)	(− 7.2)		
17371	.986	254.7	347.1	−16.2	6	64
17373	.972	298.1	336.4	+25.1	74	434
17375	.899	247.1	329.8	−23.6	80	426
17377	.877	295.5	321.7	+18.2	41	214
17379	.333	239.7	282.8	−16.5	28	124
17378	.700	19.5	249.0	+34.3	74	416
17381	.663	35.8	239.8	+26.0	17	56
17382	.973	66.7	192.9	+20.6	9	38
17383	.984	107.0	184.2	−17.9	5	19
Mar.10.407		(−23.7)	(251.8)	(− 7.2)		
17373	.991	296.5	329.6	+24.9	34	213
17375	.970	247.3	329.3	−23.7	107	481
17377	.958	290.7	321.6	+17.5	32	171
17379	.538	250.2	283.5	−16.6	22	123
17378	.655	5.9	247.2	+33.3	66	344
1371a	.481	15.2	244.1	+20.4	2	25
17381	.578	18.5	240.1	+26.1	15	82
17382	.904	63.5	192.4	+20.2	5	26
17383	.923	106.8	183.6	−18.2	5	23
Mar.11.465		(−23.9)	(237.8)	(− 7.2)		
17375	.996	246.4	325.0	−24.0	0	37
17379	.736	253.6	285.2	−16.9	21	121
					continued	

Group 17377. Mar. 3 - 10. A pair of spots separating in longitude. On March 6 other spots appear in between to form a stream.
Group 17378. Mar. 4 - 15. A stream in which the leader, a regular spot, alone remains by March 13.
Group 17379. Mar. 7 - 14. A spot which quickly becomes regular in outline, followed by two or three companions until March 11.
Group 17380. Mar. 7 - 8. A tiny spot on March 7; a pair on March 8.
Group 17381. Mar. 8 - 15. A few variable spots.
Group 17382. Mar. 9 - 12. A small spot, not seen on March 11.
Group 17383. Mar. 9 - 15. A small spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Mar.11.465	*continued*					
17378	.679	346.3	249.0	+34.1	60	284
17381	.548	357.5	239.3	+25.9	14	79
1371b	.378	143.1	223.4	−24.5	0	16
17384	.918	41.1	186.6	+39.4	2	25
17383	.803	107.3	184.3	−18.1	6	20
17385	.982	66.1	162.9	+21.7	172	961
17386	.968	109.6	160.8	−20.7	104	457
Mar.12.349		(−24.1)	(226.2)	(− 7.2)		
17379	.853	254.5	285.2	−17.0	25	119
17378	.734	334.7	248.6	+34.8	33	225
17381	.580	338.2	240.0	+25.5	4	27
17382	.676	51.1	192.5	+19.1	3	20
17384	.862	32.5	188.4	+41.0	0	17
17383	.671	108.6	184.5	−17.8	3	15
17385	.936	63.3	162.1	+21.8	165	985
17386	.905	109.5	160.7	−20.7	92	455
Mar.13.409		(−24.2)	(212.2)	(− 7.2)		
17379	.948	254.6	284.6	−16.8	20	130
17378	.836	319.5	253.0	+34.1	28	128
17381	.678	322.1	239.7	+25.9	4	18
17384	.809	20.8	189.4	+42.4	0	8
17383	.489	113.9	184.3	−17.8	5	10
17385	.837	58.6	162.3	+21.3	163	1237
17386	.787	110.6	160.5	−20.6	89	488
17387	.994	65.6	132.4	+23.1	18	79
17388	.985	109.3	130.3	−20.2	37	212
Mar.14.409		(−24.4)	(199.0)	(− 7.2)		
17379	.993	254.2	283.6	−16.4	16	126
1371c	.973	291.7	271.9	+19.1	0	4
17378	.906	313.2	251.7	+34.1	23	118
17381	.785	310.6	240.1	+25.3	3	7
17384	.802	9.8	187.9	+45.0	0	7
17389	.459	27.2	186.4	+17.0	5	44
17383	.341	124.4	181.8	−18.5	2	7
17390	.624	38.6	174.2	+22.6	3	8
17385	.716	51.9	162.2	+20.4	192	1206
17386	.648	113.4	159.8	−20.5	90	406
1371d	.789	110.6	147.1	−20.6	2	11
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Mar.14.409	*continued*					
17387	.957	62.7	131.2	+23.5	15	68
1371e	.931	120.0	130.0	−30.5	3	12
17388	.931	109.0	129.5	−20.2	42	243
Mar.15.305		(−24.6)	(187.2)	(− 7.2)		
17378	.961	309.0	251.8	+34.3	16	106
17381	.858	305.7	237.6	+25.5	0	9
17389	.410	0.0	187.2	+16.9	5	20
17383	.200	164.3	183.9	−18.2	1	5
17390	.529	21.6	175.1	+22.3	1	5
17385	.590	41.2	162.9	+19.8	195	1089
17386	.494	119.9	160.1	−20.6	84	420
17387	.890	58.8	131.3	+23.5	19	74
17391	.836	115.6	130.9	−25.3	4	15
17388	.842	109.8	129.7	−20.5	36	240
17392	.946	68.1	120.0	+18.0	14	59
Mar.16.423		(−24.7)	(172.5)	(− 7.1)		
17389	.471	329.9	186.7	+17.1	7	30
17390	.515	350.8	177.6	+23.4	4	16
17385	.482	20.2	162.4	+19.8	146	780
17386	.315	139.0	159.8	−20.6	82	401
1371f	.527	130.9	146.2	−26.5	0	2
17391	.675	118.9	132.2	−24.5	5	15
17387	.777	51.5	131.1	+23.6	14	62
17388	.683	111.7	130.2	−19.9	51	245
17393	.854	51.3	123.9	+27.6	9	21
17392	.857	64.0	118.6	+17.9	33	100
Mar.17.367		(−24.9)	(160.0)	(− 7.1)		
1371g	.774	300.4	204.4	+18.0	0	3
17389	.595	312.8	187.1	+17.5	6	35
17390	.584	327.8	179.6	+22.8	2	8
17385	.459	357.9	161.0	+20.1	125	725
17386	.237	178.7	159.7	−20.7	79	397
1371h	.685	22.1	142.3	+32.5	0	3
17387	.669	42.2	130.8	+23.5	13	59
17388	.528	116.2	129.9	−19.6	60	252
17393	.780	44.5	121.8	+28.2	6	22
1371i	.716	130.5	119.6	−33.2	0	3
17392	.744	58.1	118.6	+17.8	29	114

Group 17384. Mar. 11 - 14. A small spot on March 11, 13 and 14; a pair on March 12.
Group 17385. Mar. 11 - 23. A large complex spot, with several nuclei, which shows very little change throughout the transit. It is surrounded by many variable companions until March 17, after which the group consists of the principal spot and a small composite leader.
Group 17386. Mar. 11 - 23. A stable regular spot. From March 13 to March 21 the umbra is crossed by a bright 'bridge'.
Group 17387. Mar. 13 - 19. A small spot.
Group 17388. Mar. 13 - 25. A regular spot with some companions from March 16-21.
Group 17389. Mar. 14 - 17. A few small spots.
Group 17390. Mar. 14 - 17. A small spot on March 14 and 15; a pair on March 16 and 17.
Group 17391. Mar. 15 - 16. A pair of small spots on March 15; a single spot on March 16.
Group 17392. Mar. 15 - 24. A string of small spots dying out before reaching the west limb.
Group 17393. Mar. 16 - 17. A pair of small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Mar.18.405		(-25.1)	(146.3)	(- 7.1)		
17385	.527	232.1	161.5	+20.8	175	960
17386	.323	221.3	159.4	-20.9	82	388
1371*j*	.252	205.9	153.0	-20.1	2	16
17387	.566	25.8	130.8	+23.7	9	24
17388	.346	131.5	130.0	-20.1	46	203
17392	.596	46.3	119.5	+17.9	29	130
17394	.742	57.0	105.5	+18.5	1	10
17395	.839	52.9	98.5	+25.7	0	6
17396	.943	59.7	82.1	+25.5	6	19
17397	.970	71.1	73.6	+16.3	8	55
Mar.19.468		(-25.2)	(132.3)	(- 7.0)		
17385	.650	314.9	161.8	+21.2	196	1215
17386	.494	239.2	159.2	-20.9	71	376
17387	.515	2.8	130.7	+23.8	2	20
17388	.240	169.8	129.7	-20.5	52	230
17392	.465	26.2	119.9	+17.7	26	138
17394	.597	45.9	105.6	+18.2	2	17
17395	.746	43.8	97.0	+26.9	6	30
17396	.854	54.4	82.3	+25.3	2	12
17397	.893	67.8	73.1	+16.2	12	54
17398	.981	55.6	60.3	+31.7	33	222
Mar.20.415		(-25.3)	(119.8)	(- 7.0)		
17385	.767	305.2	161.8	+21.0	120	1050
17386	.651	245.6	159.1	-21.0	70	364
17388	.293	216.7	130.5	-20.4	32	147
17392	.430	0.9	119.4	+18.4	5	31
17394	.482	29.9	105.2	+17.8	11	52
17395	.650	32.7	96.8	+26.6	6	35
17396	.755	47.1	82.2	+25.4	2	10
17397	.788	62.8	73.0	+16.4	11	68
17398	.936	52.5	59.4	+31.5	56	272
17399	.984	118.9	38.0	-29.6	11	60
Mar.21.300		(-25.4)	(108.2)	(- 7.0)		
17385	.861	299.2	161.5	+20.7	138	947
17386	.779	248.5	159.0	-21.1	81	371
17388	.430	236.2	130.5	-20.3	24	139
17392	.471	340.0	118.0	+19.3	2	10
17394	.423	6.4	105.4	+17.8	25	127
a	.425	0.1	108.1	+18.1	9	52
b	.428	11.6	103.0	+17.7	16	75
17395	.582	19.8	95.5	+26.3	4	40

continued

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Mar.21.300 *continued*						
17396	.659	37.4	82.0	+25.2	0	6
17397	.670	55.4	73.2	+16.6	14	60
17398	.880	48.4	57.9	+31.4	58	302
17400	.935	113.7	38.2	-24.6	0	13
17399	.965	118.4	32.1	-29.1	55	445
Mar.22.334		(-25.5)	(94.5)	(- 6.9)		
17385	.946	294.5	161.1	+20.5	78	757
17386	.896	249.9	158.6	-21.0	69	399
17388	.610	246.2	130.7	-19.8	18	98
17392	.581	313.1	120.7	+17.2	0	8
17394	.465	335.5	106.2	+18.2	55	338
a	.488	329.7	109.5	+18.2	30	172
b	.451	341.5	103.1	+18.4	25	166
17395	.545	357.3	96.1	+25.9	12	87
17397	.525	41.8	73.2	+16.6	12	56
17398	.792	40.4	57.6	+31.5	49	276
17400	.839	115.1	38.0	-24.7	10	45
17399	.893	119.4	31.6	-29.3	32	212
17401	.976	65.1	21.5	+22.3	0	29
17402	.982	113.1	13.8	-23.9	45	325
Mar.23.364		(-25.6)	(81.0)	(- 6.9)		
17386	.974	250.0	159.3	-21.0	67	395
17385	.988	291.4	158.7	+19.8	69	372
17388	.764	249.7	130.4	-19.9	31	116
17392	.721	302.0	120.6	+17.1	0	6
17394	.586	315.0	106.8	+18.2	92	555
a	.627	310.0	111.2	+17.8	51	253
b	.555	319.0	103.5	+18.3	35	269
17395	.588	335.6	96.6	+25.7	5	57
17397	.415	18.0	73.4	+16.3	11	41
17398	.712	29.9	56.4	+31.7	60	276
17400	.721	118.1	36.7	-24.8	26	140
17399	.767	123.6	33.8	-29.8	40	244
17401	.910	61.8	21.3	+22.1	0	11
17402	.917	112.6	13.9	-23.4	27	267
Mar.24.314		(-25.7)	(68.4)	(- 6.9)		
17388	.877	251.1	130.0	-19.8	13	54
17403	.896	298.9	126.0	+22.0	25	96
17392	.841	296.1	120.6	+17.5	0	2

continued

Group 17394. Mar. 18 - 27. A stream of normal type developing from a tiny spot first seen on March 18.
Group 17395. Mar. 18 - 27. A few unstable spots, not seen on March 25 and 26.
Group 17396. Mar. 18 - 21. A small spot.
Group 17397. Mar. 18 - 26. A small spot.
Group 17398. Mar. 19 - 31. A regular spot, with two small companions on March 21. On March 27 more spots begin to appear preceding it and grow rapidly to form a stream.
Group 17399. Mar. 20 - 28. A group of spots slowly dying out.
Group 17400. Mar. 21 - 29. A small group of spots with a brief maximum on March 23.
Group 17401. Mar. 22 - 29. One or two small spots.
Group 17402. Mar.22-Apr.1. An elongated spot which soon disintegrates and dies out.
Group 17403. Mar. 24 - 25. A pair of small spots appearing near the west limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Mar.24.314	*continued*					
17394	.715	303.8	106.9	+18.1	108	504
a	.764	301.3	111.7	+18.4	56	258
b	.679	306.5	103.3	+18.2	44	205
17395	.664	321.2	95.6	+25.0	6	37
17397	.397	348.0	73.3	+15.9	5	28
1371k	.503	19.4	58.1	+21.4	3	35
17398	.651	16.8	55.7	+31.7	51	249
17400	.568	125.6	37.8	−25.2	24	120
17399	.651	130.4	33.4	−30.5	44	190
17401	.813	56.7	21.5	+21.8	3	11
17402	.818	114.6	14.1	−24.0	21	121
17404	.983	105.7	347.8	−16.6	35	178
Mar.25.533		(−25.8)	(52.4)	(− 6.8)		
17388	.970	251.2	129.6	−19.8	8	26
17403	.978	293.8	126.2	+21.5	30	155
17394	.867	296.2	107.4	+18.7	96	591
a	.912	295.3	113.4	+19.7	44	271
b	.829	297.4	102.9	+18.0	36	225
17405	.582	236.2	84.4	−24.6	12	50
17397	.510	317.4	73.3	+15.6	2	9
17398	.630	357.0	54.6	+32.0	51	256
17400	.380	145.6	38.8	−24.8	13	53
17399	.494	145.4	33.5	−30.3	18	96
17401	.674	45.8	21.1	+22.1	1	6
17402	.658	118.6	13.5	−23.6	17	95
17406	.879	54.2	359.5	+26.9	4	30
17404	.914	105.6	345.6	−17.0	31	171
Mar.26.349		(−25.9)	(41.6)	(− 6.8)		
17394	.942	292.7	108.0	+18.7	86	465
a	.962	292.3	111.9	+19.2	52	272
b	.909	293.9	102.5	+18.4	21	111
17405	.706	241.5	84.5	−24.6	35	132
17397	.625	305.5	73.3	+15.4	1	10
17398	.653	344.4	53.5	+32.1	47	269
1371l	.542	345.5	50.2	+24.8	2	16
17400	.315	171.7	38.7	−24.8	10	44
17399	.404	164.5	34.5	−29.5	6	32
17401	.581	35.0	20.6	+22.0	2	10
17402	.528	126.8	14.0	−24.5	18	116
17406	.792	48.1	0.4	+26.8	10	50
17404	.824	106.0	345.9	−17.0	28	187
17407	.971	112.3	324.2	−23.2	37	172
Mar.27.370		(−26.0)	(28.1)	(− 6.7)		
17394	.980	289.4	103.5	+17.4	5	64
b	.977	290.8	102.3	+18.5	0	21
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat..	Area Unb.	Area Whole Spots
1956		°	°	°		
Mar.27.370	*continued*					
17395	.937	301.8	91.0	+26.7	0	6
17405	.852	245.6	86.2	−24.2	35	141
17398	.716	330.8	52.5	+32.5	36	268
17400	.359	206.4	38.2	−25.3	7	30
17399	.401	189.2	32.3	−29.9	1	9
17401	.481	17.0	19.5	+20.7	0	5
17402	.405	143.4	12.7	−25.4	17	117
17406	.666	36.5	2.0	+26.3	37	168
17404	.678	107.2	345.8	−16.5	33	187
17407	.899	112.7	323.8	−23.3	31	171
Mar.28.343		(−26.0)	(15.3)	(− 6.7)		
17405	.942	246.4	86.5	−24.5	36	223
17398	.791	319.0	52.5	+31.3	71	398
17400	.507	229.8	40.5	−25.1	5	18
17399	.487	211.4	32.4	−30.9	1	4
17401	.478	354.8	18.0	+21.6	2	10
17402	.328	174.4	13.3	−25.7	15	99
17406	.564	19.8	3.1	+25.3	45	325
17404	.508	111.6	345.9	−16.6	31	189
17407	.794	114.4	323.6	−23.3	22	139
Mar.29.342		(−26.1)	(2.1)	(− 6.6)		
17405	.985	246.1	83.9	−24.6	0	31
17408	.777	252.9	53.0	−17.4	10	46
17398	.876	311.1	52.3	+31.0	110	778
17400	.649	238.7	39.7	−25.0	5	9
17401	.539	337.9	14.8	+23.4	1	10
17402	.369	206.6	12.6	−25.7	21	151
17406	.532	359.6	2.3	+25.4	63	311
17404	.326	122.2	345.5	−16.3	28	169
17407	.655	117.9	323.3	−23.0	24	117
Mar.30.466		(−26.2)	(347.3)	(− 6.6)		
17408	.908	254.1	53.1	−17.2	37	184
17398	.952	306.1	51.3	+31.3	89	769
17409	.744	246.8	34.4	−21.5	7	23
17402	.523	229.2	13.3	−25.9	17	146
17406	.572	338.5	0.6	+25.0	56	267
17404	.178	172.4	345.9	−16.7	22	145
17407	.482	127.8	322.9	−23.1	19	106
17410	.947	67.6	279.9	+18.7	11	34
Mar.31.493		(−26.2)	(333.7)	(− 6.5)		
17398	.989	304.2	49.1	+32.3	14	112
17408	.986	255.0	55.1	−15.8	12	53
17409	.882	248.6	35.7	−21.9	26	94
					continued	

Group 17404. Mar.24-Apr.4. A regular spot, followed by some small changing companions until March 31.
Group 17405. Mar. 25 - 29. A pair of spots appearing suddenly past the central meridian.
Group 17406. Mar.25-Apr.4. A small stream going through its life-history on the disk.
Group 17407. Mar.26-Apr.4. A small spot.
Group 17408. Mar. 29 - 31. A few spots appearing near the west limb.
Group 17409. Mar.30-Apr.1. A few spots.
Group 17410. Mar.30-Apr.5. A few scattered spots, not seen on April 4.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Mar.31.493	*continued*					
17402	.694	239.5	15.0	−25.5	12	83
17411	.708	308.6	9.9	+20.9	6	23
17406	.661	322.2	0.3	+25.6	44	240
17404	.276	227.6	346.0	−17.0	19	110
1372a	.171	229.8	341.4	−12.8	2	8
17407	.336	148.4	322.7	−23.0	21	108
17410	.888	64.6	275.9	+19.0	9	42
Apr. 1.518		(−26.3)	(320.2)	(− 6.5)		
17409	.973	249.3	38.1	−21.6	9	43
17402	.830	243.4	15.3	−25.5	12	40
17411	.832	301.3	9.8	+21.4	6	28
17406	.759	312.8	358.3	+25.9	37	207
17404	.490	247.5	348.3	−16.6	13	50
17407	.286	187.7	322.6	−22.9	21	90
17410	.782	59.3	275.1	+18.9	11	30
Apr. 2.673		(−26.3)	(305.0)	(− 6.4)		
17411	.952	295.3	12.6	+21.7	3	21
17406	.866	305.1	356.8	+26.0	40	250
17404	.688	252.8	348.1	−16.4	6	19
17407	.398	223.5	322.2	−22.8	10	38
17410	.636	49.0	274.6	+19.1	10	60
17412	.863	60.1	251.6	+21.7	0	9
17413	.957	54.7	239.4	+31.1	0	15
17414	.955	103.6	231.4	−14.9	3	12
Apr. 3.333		(−26.3)	(296.3)	(− 6.4)		
17406	.919	301.9	356.3	+25.9	34	177
1372b	.926	306.9	355.5	+30.6	0	9
17404	.789	253.9	348.4	−16.6	6	18
17407	.498	234.0	322.1	−22.8	8	23
17410	.481	34.4	279.8	+17.2	2	6
17412	.807	58.4	249.2	+20.7	6	30
17413	.939	55.3	234.1	+29.4	6	23
17414	.895	104.4	232.3	−15.7	4	30
Apr. 4.393		(−26.3)	(282.3)	(− 6.3)		
17406	.985	299.7	357.5	+27.8	13	68
17404	.898	254.5	346.7	−16.7	5	23
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Apr. 4.393	*continued*					
17407	.664	242.7	321.9	−22.6	3	15
17413	.863	46.8	234.6	+32.0	16	68
17414	.779	105.7	231.2	−16.1	7	39
17415	.965	68.3	211.1	+19.0	8	30
Apr. 5.529		(−26.4)	(267.3)	(− 6.2)		
17410	.448	340.6	276.3	+18.7	3	17
17413	.783	38.3	232.2	+32.8	59	246
17415	.876	64.8	210.8	+18.5	2	11
17416	.961	64.8	197.7	+22.1	4	32
Apr. 6.340		(−26.4)	(256.6)	(− 6.2)		
17413	.725	30.0	231.0	+33.2	86	494
17415	.786	60.6	210.6	+18.4	2	11
17416	.944	61.0	191.4	+24.7	24	179
Apr. 7.344		(−26.4)	(243.3)	(− 6.1)		
17413	.668	17.3	229.5	+33.6	113	562
17416	.860	56.8	191.3	+24.3	49	256
17417	.968	70.8	170.8	+16.8	8	33
17418	.998	111.0	154.7	−21.3	52	221
Apr. 8.379		(−26.4)	(229.7)	(− 6.1)		
17413	.645	1.6	228.5	+33.9	92	546
17416	.746	50.2	191.1	+23.7	73	451
17417	.887	67.6	171.1	+16.6	10	39
17418	.960	110.2	155.1	−21.0	44	204
17419	.984	67.6	153.4	+20.7	19	129
Apr. 9.340		(−26.3)	(217.0)	(− 6.0)		
17413	.667	346.9	227.5	+34.5	70	406
17416	.624	38.9	191.8	+23.5	117	654
17417	.777	62.5	171.1	+16.9	7	28
17420	.907	60.5	157.8	+23.5	5	30
1372c	.929	58.1	155.3	+26.6	3	29
17418	.885	110.7	154.8	−21.0	58	261
17419	.930	64.8	153.1	+20.7	27	134
17421	.988	108.2	134.6	−18.9	22	113

Group 17411. Mar.31-Apr.2. A pair of small spots on March 31 and April 1; a single spot on April 2.
Group 17412. Apr. 2 - 3. One or two tiny spots
Group 17413. Apr. 2 - 13. A stream which goes through its life history on the disk. The follower becomes a regular spot and is the last to disappear.
Group 17414. Apr. 2 - 4. A few small spots.
Group 17415. Apr. 4 - 11. A small spot, seen only on April 4 to 6 and April 11.
Group 17416. Apr. 5 - 17. A stream of normal type developing from a few small spots first seen at the east limb. The leader becomes a regular spot and alone remains at the limb.
Group 17417. Apr. 7 - 18. Intermittent. A small spot.
Group 17418. Apr. 7 - 20. A stable regular spot.
Group 17419. Apr. 8 - 20. A small stable regular spot.
Group 17420. Apr. 9 - 13. A small spot on April 9, 10 and 13; a pair on April 11 and 12.
Group 17421. Apr. 9 - 22. A stream developing from tiny spots first seen at the east limb. Both the leader and follower first become composite in structure and after a day or two change into regular spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Apr.10.337		(−26.3)	(203.8)	(− 5.9)		
17413	.714	337.2	223.6	+35.5	53	326
17422	.395	234.8	223.6	−18.7	4	17
17416	.525	20.8	192.1	+23.5	113	793
17417	.637	54.2	171.2	+16.9	3	10
17420	.804	54.6	158.3	+23.6	3	17
17418	.767	112.7	154.7	−21.1	59	265
17419	.837	60.4	152.9	+20.7	35	135
17421	.928	108.7	135.2	−19.6	20	110
17423	.954	73.9	133.6	+13.4	30	107
17424	.978	120.7	124.7	−31.2	127	837
Apr.11.366		(−26.3)	(190.3)	(− 5.8)		
17421	.743	257.9	238.2	−12.8	0	3
17413	.791	323.7	224.9	+34.8	40	185
17422	.573	244.9	223.4	−18.9	2	11
17415	.501	328.3	206.5	+19.5	1	5
17416	.497	354.6	193.2	+23.7	89	582
17420	.681	46.2	158.1	+23.1	7	23
17418	.619	117.3	154.3	−21.2	58	252
17419	.714	53.5	152.7	+20.5	22	126
17421	.832	110.1	134.3	−19.9	16	101
17423	.869	70.5	133.0	+13.8	47	271
17424	.927	121.4	122.9	−31.2	130	879
17425	.992	68.2	110.5	+20.7	27	229
17426	.995	125.6	103.1	−36.0	10	105
Apr.12.331		(−26.2)	(177.5)	(− 5.8)		
17413	.871	315.8	255.0	+34.8	30	128
17422	.714	247.8	222.0	−19.8	6	21
17416	.553	332.0	193.9	+23.6	103	513
17417	.416	15.6	170.8	+17.8	4	16
17420	.555	30.6	159.7	+22.9	5	16
17427	.682	27.2	156.1	+31.8	3	9
17418	.457	126.7	154.5	−21.2	52	253
17419	.582	42.0	153.1	+20.3	29	110
17421	.682	112.2	135.7	−19.3	18	118
17423	.742	65.5	133.7	+13.7	47	302
17424	.836	124.0	123.5	−31.3	91	545
17425	.922	66.7	114.3	+18.8	71	260
17426	.954	126.0	105.2	−36.0	18	160
17428	.984	113.4	96.5	−24.0	5	25
Apr.13.310		(−26.2)	(164.6)	(− 5.7)		
17422	.834	249.4	220.7	−20.2	4	14
17413	.918	314.0	219.6	+36.4	5	21
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Apr.13.310	*continued*					
17416	.666	315.8	194.9	+23.5	80	460
17417	.403	347.0	170.0	+17.3	2	7
17420	.436	6.6	161.6	+19.9	0	5
17418	.322	147.2	153.9	−21.2	39	226
17427	.633	15.4	153.2	+31.9	5	29
17419	.483	24.6	152.3	+20.4	30	125
17421	.559	118.6	133.2	−20.3	21	137
17423	.609	58.6	132.4	+13.6	66	351
17424	.734	129.4	122.8	−32.0	87	533
17425	.838	62.6	112.8	+19.1	45	190
17426	.890	127.5	104.4	−35.7	19	108
17428	.926	113.4	96.7	−23.8	17	68
Apr.14.311		(−26.2)	(151.4)	(− 5.6)		
17416	.790	305.9	195.5	+23.6	94	428
17418	.273	186.5	153.3	−21.3	48	236
17419	.440	359.4	151.7	+20.4	20	104
17429	.399	176.8	149.9	−29.0	2	14
17421	.373	131.2	134.2	−19.5	92	450
17423	.454	45.0	132.2	+13.4	52	240
17424	.617	136.6	121.7	−31.4	78	429
17425	.713	55.2	113.1	+19.6	47	247
17426	.830	130.8	100.3	−36.4	12	56
17428	.821	115.2	97.3	−23.8	8	50
Apr.15.481		(−26.1)	(135.9)	(− 5.5)		
17416	.902	299.7	194.5	+23.7	73	430
17427	.685	330.5	159.1	+31.4	0	6
17418	.388	225.3	153.0	−21.0	48	204
17429	.466	210.5	151.5	−28.9	0	2
17419	.499	330.5	151.0	+20.3	19	84
17421	.251	174.2	134.4	−19.9	164	730
a	.238	183.9	136.9	−19.1	96	397
b	.286	161.1	130.2	−21.1	66	316
17423	.329	11.1	132.2	+13.2	44	169
17424	.494	153.5	121.0	−31.4	87	391
17425	.545	41.2	113.7	+19.0	30	167
17426	.694	138.8	101.7	−36.0	11	48
17428	.649	120.5	98.5	−23.6	12	42
Apr.16.347		(−26.0)	(124.5)	(− 5.5)		
17416	.959	296.6	193.5	+23.5	65	375
17427	.745	323.0	156.2	+31.7	10	51
17418	.522	237.9	152.6	−20.9	37	186
17419	.597	315.6	150.8	+20.2	14	73
					continued	

Group 17422. Apr. 10 - 13. One or two small spots.
Group 17423. Apr. 10 - 21. A regular spot followed by some variable companions until April 20.
Group 17424. Apr. 10 - 23. A pair of regular spots closely followed by a small cluster. On April 17 the northern of the pair begins to break up, and by April 20 the other is the sole survivor.
Group 17425. Apr. 11 - 22. A stream of unstable spots.
Group 17426. Apr. 11 - 19. Widely-separated changing spots.
Group 17427. Apr. 12 - 20. One or two small spots, not seen on April 14. On April 17 there is a sudden increase in area when a stream appears.
Group 17428. Apr. 12 - 18. One or two small spots, dying out on the central meridian.
Group 17429. Apr. 14 - 15. One or two tiny spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Apr.16.347	*continued*					
17421	.300	208.2	133.2	−20.7	140	757
a	.331	221.6	137.9	−19.6	67	319
b	.286	198.0	129.9	−21.2	66	383
17423	.344	337.1	132.4	+12.9	46	175
17424	.437	173.0	120.9	−31.1	59	315
17425	.436	21.4	114.9	+18.4	26	118
17426	.567	152.3	105.7	−35.2	5	37
17430	.567	38.6	102.3	+21.1	3	22
17428	.514	128.6	98.6	−23.6	8	19
17431	.970	55.4	55.0	+31.6	0	8
17432	.993	76.4	43.1	+12.7	0	16
Apr.17.352		(−26.0)	(111.2)	(− 5.4)		
17416	.996	294.7	192.8	+23.9	48	335
17427	.820	315.2	153.8	+31.6	63	295
17418	.682	245.0	152.4	−20.8	41	211
17419	.723	304.9	150.2	+20.2	13	78
17421	.459	234.0	134.5	−20.5	119	590
a	.513	238.7	138.9	−20.2	57	299
b	.397	225.8	128.9	−21.1	53	248
17433	.707	332.2	134.4	+33.6	3	15
17423	.467	311.3	132.2	+12.9	26	133
17424	.455	196.7	119.9	−31.1	61	289
17425	.405	354.4	113.6	+18.3	23	112
17426	.505	167.6	103.7	−34.8	5	33
17430	.478	17.6	102.3	+21.7	0	4
17428	.403	142.7	95.8	−23.8	4	27
17434	.807	53.4	65.7	+25.0	2	12
17431	.911	51.8	54.4	+31.4	5	26
17435	.946	62.0	45.0	+24.3	27	103
17432	.923	74.5	43.0	+12.0	5	28
17436	.974	53.1	41.3	+34.1	39	108
Apr.18.356		(−25.9)	(98.0)	(− 5.3)		
17417	.962	292.3	168.8	+19.7	0	24
17427	.902	309.0	153.2	+31.6	71	352
17418	.817	248.0	152.0	−21.0	34	192
17419	.840	298.5	149.8	+20.4	23	79
17433	.792	321.5	134.3	+33.9	49	185
17421	.612	242.7	133.4	−20.5	113	598
a	.682	245.2	139.2	−20.6	64	291
b	.554	239.1	128.5	−21.0	43	272
17423	.626	296.8	132.7	+12.0	32	112
17424	.546	216.5	120.1	−30.9	38	200
17425	.493	322.7	116.2	+18.0	13	69
17430	.414	347.6	103.4	+18.5	2	18
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Apr.18.356	*continued*					
17426	.512	188.7	103.4	−35.5	4	42
17428	.318	177.3	97.1	−23.8	4	19
17437	.563	109.4	64.8	−15.1	4	19
17431	.822	45.2	55.0	+31.5	8	19
17435	.859	57.4	45.6	+24.3	35	191
17432	.823	71.4	45.3	+12.0	12	57
17436	.923	50.1	40.0	+33.5	28	104
Apr.19.380		(−25.8)	(84.4)	(− 5.2)		
17418	.924	249.8	152.0	−20.6	35	186
17427	.961	305.4	151.6	+31.9	41	197
17419	.936	294.4	149.8	+20.6	13	78
17438	.840	237.5	138.9	−29.8	0	2
17421	.774	247.6	134.0	−20.5	93	466
a	.828	248.4	139.6	−20.7	52	266
b	.707	245.0	127.6	−21.2	38	179
17433	.878	314.2	133.9	+34.3	34	206
17423	.781	289.6	132.9	+11.7	19	78
17424	.677	226.6	119.7	−31.9	32	129
17425	.630	306.0	116.5	+17.2	4	26
17426	.569	208.8	103.8	−34.8	1	29
17437	.355	122.2	66.3	−15.8	6	17
17435	.739	50.1	46.1	+24.2	43	256
17432	.672	66.0	45.7	+11.8	12	43
17436	.846	44.2	39.4	+33.6	19	97
17439	.967	116.2	8.6	−26.6	8	27
17440	.994	72.2	2.8	+17.0	18	61
Apr.20.341		(−25.7)	(71.7)	(− 5.1)		
17418	.982	249.9	151.7	−20.7	36	210
17419	.986	291.7	149.2	+20.4	6	47
17427	.990	303.1	148.7	+31.7	0	161
17438	.943	239.7	141.8	−30.2	13	80
17421	.889	249.1	134.2	−20.9	73	361
a	.926	249.8	139.6	−20.6	45	236
b	.830	248.2	127.1	−20.9	28	125
17433	.942	309.6	133.3	+34.5	30	152
17423	.888	286.1	132.1	+11.8	20	92
17441	.774	244.5	120.8	−22.8	0	6
17424	.794	231.9	119.5	−32.8	16	74
17425	.787	296.3	119.0	+16.9	2	7
17437	.199	153.7	66.5	−15.3	2	8
17432	.488	55.9	47.5	+11.1	11	49
17435	.612	38.0	47.4	+24.1	39	213
17436	.743	35.4	41.0	+32.8	22	93
17439	.875	114.4	11.4	−23.7	28	90
17440	.948	70.1	3.1	+17.0	17	95
17442	.968	109.1	355.5	−19.8	0	14

Group 17430. Apr. 16 - 18. One or two small spots.
Group 17431. Apr. 16 - 22. Intermittent. One or two small spots.
Group 17432. Apr. 16 - 23. One or two small spots.
Group 17433. Apr. 17 - 21. A small group forming west of the central meridian.
Group 17434. Apr. 17 - 22. A tiny spot on April 17; a pair on April 22.
Group 17435. Apr. 17 - 28. A regular spot leading a train of variable spots.
Group 17436. Apr. 17 - 26. A stream of unstable spots dying out before reaching the west limb.
Group 17437. Apr. 18 - 21. One or two small spots.
Group 17438. Apr. 19 - 21. A small spot.
Group 17439. Apr. 19 - 24. Two or three small spots.
Group 17440. Apr.19 -May 1. A small regular spot until April 23, after which other spots appear to form a small compact group for two days. The group then begins to break up.
Group 17441. Apr. 20 - 23. A small group forming near the west limb.
Group 17442. Apr. 20 - 23. One or two small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Apr.21.353		(−25.6)	(58.0)	(− 5.0)		
17438	.980	240.6	137.4	−29.8	34	167
17421	.968	249.8	134.1	−20.8	61	372
a	.987	250.0	139.7	−20.5	42	273
b	.929	249.8	126.4	−20.6	19	99
17423	.974	282.5	133.4	+11.0	20	93
17433	.984	306.7	131.5	+34.7	13	149
17424	.892	235.4	118.8	−32.9	15	50
17441	.873	245.8	118.0	−23.5	16	52
17425	.897	294.2	117.7	+19.0	2	21
17437	.202	203.6	62.8	−15.6	5	16
17432	.327	31.7	47.9	+11.2	14	50
17435	.524	21.0	46.2	+24.3	75	365
17436	.644	21.8	41.7	+31.7	56	260
17443	.524	134.6	33.6	−26.0	11	41
17439	.744	118.5	12.4	−24.3	19	46
17440	.853	67.0	3.2	+16.6	21	113
17442	.881	109.6	356.4	−19.6	4	9
Apr.22.381		(−25.5)	(44.8)	(− 4.9)		
17421	.988	249.9	126.8	−20.6	16	72
b	.988	249.9	126.8	−20.6	16	72
17424	.963	236.5	118.9	−33.5	13	59
17425	.973	290.1	118.8	+18.2	0	37
17441	.942	245.1	115.2	−25.1	28	168
17434	.604	328.9	65.1	+26.4	1	12
17431	.617	344.5	55.9	+31.5	1	9
1372e	.292	201.0	51.2	−20.6	4	14
17432	.292	346.2	48.9	+11.5	5	14
17435	.493	357.3	46.3	+24.5	127	609
17436	.609	5.3	41.0	+32.3	48	328
17443	.432	150.5	31.1	−26.7	8	28
17439	.603	126.4	12.6	−25.0	7	24
17440	.716	61.1	4.1	+16.5	19	90
17442	.768	111.5	355.7	−19.6	7	32
17444	.986	65.9	327.7	+22.7	41	304
Apr.23.308		(−25.4)	(32.5)	(− 4.8)		
17424	.993	237.2	117.3	−33.1	0	28
17441	.987	245.2	114.2	−25.2	26	195
17445	.646	308.7	64.7	+19.7	3	9
17432	.397	315.8	48.9	+11.8	3	8
17435	.528	337.5	45.3	+24.4	91	581
17436	.611	348.6	40.7	+31.9	34	243
17443	.337	184.2	34.1	−24.3	3	13
17439	.471	135.8	11.5	−24.1	3	19
17440	.571	51.8	4.7	+16.4	22	107
17442	.625	115.8	356.0	−19.6	3	12
17444	.939	63.8	326.9	+22.5	36	196
17446	.977	115.7	314.1	−26.1	0	12
Apr.24.369		(−25.2)	(18.5)	(− 4.7)		
17445	.793	299.2	65.6	+19.5	0	13
17435	.628	319.8	44.8	+24.3	84	473
1372f	.481	224.8	40.2	−24.3	3	13
17436	.668	332.0	40.1	+31.7	22	99
17443	.429	203.8	29.7	−27.6	11	54
17439	.344	156.6	10.0	−23.0	1	5
17440	.419	33.0	4.8	+16.0	33	160
17444	.848	59.2	326.5	+22.8	39	204
17446	.920	116.4	312.2	−26.0	3	23
Apr.25.411		(−25.1)	(4.8)	(− 4.7)		
17445	.899	295.1	64.7	+20.1	14	39
17435	.745	309.0	44.1	+24.3	45	303
17436	.752	321.7	38.1	+32.1	10	58
17443	.541	221.9	28.9	−28.0	8	46
17440	.350	0.0	4.8	+15.7	23	114
1372g	.456	40.1	347.1	+15.8	3	23
17444	.743	52.9	324.9	+23.0	35	169
17446	.827	118.7	311.1	−26.2	14	53
Apr.26.372		(−24.9)	(352.1)	(− 4.6)		
17435	.843	303.3	42.7	+24.6	66	300
17436	.840	313.1	38.1	+31.8	6	51
17443	.683	232.8	30.0	−28.0	3	12
17440	.423	328.5	5.4	+16.6	18	96
17444	.650	45.3	322.1	+23.1	42	266
17447	.546	110.2	320.3	−14.7	5	46
17446	.721	122.7	309.7	−26.3	4	24
Apr.27.359		(−24.8)	(339.0)	(− 4.5)		
17435	.929	299.0	42.3	+24.8	86	498
17443	.853	241.4	35.6	−26.6	11	42
17440	.563	308.8	6.1	+16.6	19	109
17444	.536	31.0	321.6	+23.0	30	204
17447	.350	122.0	321.2	−15.0	16	80
Apr.28.340		(−24.7)	(326.1)	(− 4.4)		
17435	.981	296.5	41.4	+24.9	60	354
17443	.934	244.5	34.7	−25.3	5	45
17440	.706	298.5	6.2	+16.3	25	142
17444	.463	6.2	323.0	+22.9	23	125
17447	.204	157.9	321.6	−15.2	12	98
Apr.29.342		(−24.5)	(312.8)	(− 4.3)		
17440	.849	291.9	7.6	+16.0	25	132
17444	.493	340.1	323.3	+23.3	21	90
17447	.244	220.1	322.1	−15.0	9	60

Group 17443. Apr. 21 - 28. A string of small spots.
Group 17444. Apr.22-May 4. A regular spot, with some variable companions following it for a few days.
Group 17445. Apr. 23 - 25. One or two small spots.
Group 17446. Apr. 23 - 26. Two or three small spots.
Group 17447. Apr.26-May 4. A few faint spots developing by May 1 into a compact little group, which, however, is dying out as it passes round the limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Apr.30.311		(−24.3)	(300.0)	(− 4.2)		
17440	.936	288.7	6.9	+15.8	22	127
17447	.422	243.4	322.9	−14.7	16	122
17444	.594	320.6	324.2	+23.4	19	59
17448	.577	113.1	266.5	−16.6	5	25
17449	.955	108.3	227.0	−18.7	57	377
17450	.989	72.3	220.5	+16.8	105	492
a	.989	72.3	220.5	+16.8	105	492
May 1.395		(−24.1)	(285.7)	(− 4.1)		
17440	.995	285.9	8.4	+15.4	0	53
17444	.724	308.5	323.7	+23.5	13	59
17447	.623	251.7	323.2	−14.5	56	284
17448	.388	125.3	266.5	−16.8	20	84
17449	.862	110.3	226.9	−19.5	61	310
17451	.928	63.2	221.8	+23.0	16	68
17450	.949	71.8	216.4	+15.8	183	1105
a	.928	70.5	220.2	+16.3	121	537
b	.971	73.1	211.5	+15.3	62	568
May 2.316		(−23.9)	(273.5)	(− 4.0)		
17447	.778	254.5	324.1	−14.5	62	332
17444	.826	302.5	322.9	+23.7	8	52
17452	.423	173.9	270.6	−28.8	0	5
17448	.252	149.5	265.9	−16.5	46	224
1373*a*	.475	120.0	248.1	−17.3	3	8
17449	.735	112.6	227.8	−19.1	46	207
17451	.849	59.7	221.0	+22.9	11	53
17450	.871	68.9	215.9	+16.1	153	1125
a	.839	67.3	219.9	+16.5	91	574
b	.902	70.6	211.7	+15.5	55	483
17453	.972	70.9	199.4	+17.5	33	134
May 3.352		(−23.8)	(259.8)	(− 3.9)		
17447	.918	255.8	326.4	−14.5	43	235
17444	.900	299.0	319.0	+23.8	9	38
17452	.428	201.8	270.0	−27.2	0	8
17448	.244	206.7	266.3	−16.4	36	179
17454	.226	121.0	248.5	−10.5	5	26
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
May 3.352	*continued*					
17449	.566	118.4	228.2	−18.9	37	214
17451	.727	52.2	221.2	+23.3	10	37
17450	.743	64.2	215.9	+16.0	168	1123
a	.698	62.0	220.1	+16.1	95	543
b	.786	67.3	211.3	+15.1	62	500
17453	.894	68.4	199.5	+17.3	40	183
17455	.943	70.3	191.8	+17.1	0	16
17456	.977	63.4	185.6	+24.9	53	271
May 4.391		(−23.6)	(246.1)	(− 3.8)		
17447	.987	255.8	327.3	−14.6	17	141
17444	.952	295.0	314.8	+22.3	3	14
17452	.561	225.0	272.4	−26.7	14	44
1373*b*	.759	333.7	271.8	+39.3	4	14
17448	.395	235.2	265.8	−16.6	24	114
17454	.129	197.4	248.3	−10.8	7	26
17449	.405	131.4	227.4	−19.1	42	214
17451	.587	37.0	223.4	+24.3	3	11
17450	.584	54.5	216.5	+16.4	159	1082
a_1	.519	50.1	221.8	+15.9	58	253
a_2	.559	53.0	218.5	+16.2	38	254
b	.628	61.1	211.6	+14.5	49	372
17453	.767	63.7	200.3	+17.2	36	163
17455	.857	66.2	190.7	+18.1	12	57
17456	.917	60.4	184.6	+25.1	51	288
May 5.359		(−23.4)	(233.3)	(− 3.7)		
17452	.687	234.0	271.6	−26.7	31	144
17448	.557	245.4	265.1	−16.6	13	63
17454	.285	244.2	248.4	−10.7	2	36
17449	.290	157.8	226.7	−19.2	35	194
17451	.514	25.2	219.5	+24.0	6	19
17450	.436	39.4	216.6	+16.1	177	958
a_1	.388	30.5	221.5	+15.8	62	242
a_2	.419	36.4	218.4	+16.0	37	227
b	.471	50.4	211.4	+13.9	59	313
17453	.628	56.3	200.3	+17.2	31	147
17455	.734	61.2	190.9	+17.9	13	77
17456	.830	56.1	183.9	+25.1	57	267
17457	.945	71.6	164.6	+16.0	0	8
17458	.993	109.2	149.5	−19.5	20	130

Group 17448. Apr.30-May 6. A stream developing from a pair of small spots first seen on April 30. It dies out rapidly after May 4.
Group 17449. Apr.30-May 12. A regular spot followed by a few companions until May 5.
Group 17450. Apr.30-May 12. A stream, of which both leader and follower are composite spots. On May 4 the leader begins to divide, forming two regular spots, the northern of which soon begins to join up with some penumbral spots and form a composite mass north of the axis of the group before slowly declining. The follower dies out by May 11.
Group 17451. May 1 - 6. Two or three small variable spots.
Group 17452. May 2 - 8. A small stream, slowly developing from a tiny spot on May 2.
Group 17453. May 2 - 11. A pair of regular spots, dying out before reaching the west limb.
Group 17454. May 3 - 5. Two or three tiny spots.
Group 17455. May 3 - 14. A string of small spots slowly increasing in area until May 9, after which there is a sudden increase and a cluster of larger spots is formed.
Group 17456. May 3 - 15. A stable regular spot.
Group 17457. May 5 - 6. A tiny spot.
Group 17458. May 5 - 18. A small regular spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
May 6.334		(−23.2)	(220.4)	(− 3.6)		
17452	.818	239.9	272.4	−26.4	61	254
17448	.698	249.4	263.2	−16.8	6	29
17449	.291	201.6	226.9	−19.2	33	156
17451	.478	354.3	223.4	+24.7	1	5
17450	.348	10.8	216.5	+16.3	206	956
a_1	.335	357.4	221.3	+15.9	70	280
a_2	.345	6.2	218.2	+16.4	46	222
b	.338	26.3	211.6	+14.0	47	248
17453	.480	42.6	200.6	+17.2	30	131
17455	.587	51.8	191.5	+18.1	52	242
17456	.718	49.4	183.6	+24.9	62	301
17457	.857	68.7	164.4	+16.1	0	2
17458	.951	109.3	149.0	−19.0	29	138
17459	.986	111.4	139.6	−21.7	26	120
May 7.462		(−22.9)	(205.5)	(− 3.4)		
17452	.928	242.7	272.4	−26.5	34	240
17449	.438	230.7	226.5	−19.2	28	168
17450	.387	330.6	216.9	+16.3	162	971
a_1	.421	321.2	221.3	+15.8	57	287
a_2	.401	328.9	217.9	+16.7	35	222
b	.313	341.0	211.5	+13.8	40	225
17453	.363	12.7	200.7	+17.3	22	89
17455	.432	31.3	191.9	+18.2	33	183
17456	.583	36.3	183.2	+24.8	50	256
17460	.554	57.1	176.9	+14.5	0	3
17461	.625	131.5	173.8	−27.3	7	26
17458	.846	110.7	148.8	−19.3	33	143
17459	.932	111.6	137.3	−21.3	32	163
17462	.957	121.5	133.6	−31.0	15	116
May 8.326		(−22.7)	(194.1)	(− 3.3)		
17452	.979	244.1	272.3	−26.0	19	141
1373c	.725	310.2	231.7	+25.2	0	8
17449	.578	241.5	226.4	−18.7	25	133
17450	.495	312.1	216.5	+16.3	166	951
a_1	.545	306.5	221.1	+15.9	60	292
a_2	.514	311.5	217.6	+15.7	31	192
b	.411	315.7	211.2	+13.8	38	172
17453	.373	341.5	201.2	+17.4	18	71
17455	.379	6.1	191.7	+18.8	25	130
17456	.505	20.9	182.7	+24.8	57	271
17460	.420	44.3	176.6	+14.3	3	18
17461	.512	143.8	174.3	−27.5	9	48
17463	.637	106.5	155.5	−12.9	1	7
17458	.738	113.1	148.4	−19.1	27	131
17459	.856	112.7	136.5	−21.0	26	154

continued

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
May 8.326 *continued*						
17462	.899	123.1	132.9	−30.9	16	107
17464	.971	71.0	120.0	+17.5	0	18
17465	.987	117.9	112.9	−28.1	23	145
May 9.415		(−22.5)	(179.7)	(− 3.2)		
17449	.737	247.7	225.5	−18.4	30	141
17450	.657	299.3	216.2	+16.1	145	786
a_1	.702	296.7	220.2	+15.9	83	283
a_2	.673	300.2	217.1	+17.2	18	172
b	.575	299.9	210.5	+13.8	20	163
17453	.486	315.7	200.4	+17.3	12	57
17455	.416	335.2	190.3	+19.0	31	205
17456	.473	356.1	181.7	+24.8	47	251
17460	.311	13.9	176.2	+14.3	3	21
17461	.408	171.9	176.0	−26.9	4	13
17463	.436	116.9	156.1	−14.2	4	23
17458	.582	118.9	147.2	−19.0	16	122
17459	.709	116.9	137.2	−21.0	23	112
17462	.806	126.7	131.0	−30.9	9	76
17464	.885	68.5	120.3	+17.3	5	39
17465	.947	117.9	109.4	−27.4	37	192
May 10.302		(−22.2)	(167.9)	(− 3.1)		
17449	.857	250.2	225.9	−18.5	15	105
17450	.790	292.8	216.9	+15.8	104	587
a_1	.824	291.8	220.4	+15.9	68	280
a_2	.801	294.0	217.6	+16.9	13	151
b	.720	292.7	210.9	+13.8	14	98
17453	.628	303.0	201.3	+17.3	7	27
17455	.513	316.0	189.9	+18.7	94	608
17456	.520	334.5	182.1	+24.9	50	250
17461	.436	200.0	177.5	−27.1	1	5
17463	.264	138.0	157.4	−14.3	55	273
17458	.431	129.4	147.4	−18.7	21	117
17459	.562	123.7	138.0	−20.8	14	104
17462	.698	132.3	131.2	−30.5	4	16
17464	.763	64.2	122.1	+17.2	7	25
17465	.865	119.6	110.7	−26.7	14	68
17466	.967	110.4	92.7	−20.5	52	307
May 11.619		(−21.9)	(150.5)	(− 3.0)		
17449	.968	251.7	225.9	−18.4	22	112
17450	.941	288.4	218.6	+16.1	86	344
a_1	.949	288.1	220.1	+16.1	64	268
a_2	.938	289.7	217.9	+17.3	20	57
b	.887	287.5	210.9	+14.0	2	19

continued

Group 17459. May 6 - 18. A regular spot, followed by a companion until May 9.
Group 17460. May 7 - 9. One or two tiny spots.
Group 17461. May 7 - 11. Two or three small spots.
Group 17462. May 7 - 10. A small regular spot, dying out after a few days.
Group 17463. May 8 - 17. A short stream of normal type, developing from a tiny spot on May 8.
Group 17464. May 8 - 14. A few small variable spots.
Group 17465. May 8 - 19. Intermittent. A few variable spots.
Group 17466. May 10 - 22. A stable regular spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unh.	Area Whole Spots
1956		°	°	°		
May 11.619	*continued*					
17453	.823	294.2	202.3	+17.8	0	12
17455	.703	300.9	189.9	+18.8	133	773
17456	.658	314.6	181.5	+24.8	45	256
17461	.586	223.9	177.7	−27.5	0	3
17463	.231	208.5	157.0	−14.7	74	423
17458	.281	167.5	146.8	−18.8	21	116
17459	.374	145.4	137.4	−20.8	18	100
17464	.564	53.1	122.5	+17.1	5	18
17465	.718	126.1	109.9	−27.3	1	28
17467	.775	47.3	109.9	+29.3	86	375
17466	.863	111.9	92.1	−20.4	58	335
May 12.428		(−21.7)	(139.8)	(− 2.9)		
17449	.994	252.0	223.9	−18.2	0	18
17450	.986	287.6	218.5	+16.7	33	181
17455	.813	295.5	190.4	+18.6	88	596
17456	.753	306.9	181.1	+24.6	59	296
17463	.348	233.1	156.5	−14.8	87	560
17458	.300	202.0	146.6	−19.0	17	105
17459	.310	172.0	137.2	−20.7	14	96
17464	.437	39.7	122.9	+16.7	2	7
17467	.694	40.4	108.9	+29.3	152	1022
17466	.767	114.3	91.8	−20.3	74	335
May 13.363		(−21.5)	(127.5)	(− 2.8)		
17455	.913	291.7	190.7	+18.5	81	423
17456	.856	301.3	180.9	+24.7	57	256
17463	.502	244.7	155.4	−14.8	76	435
17458	.417	227.8	146.5	−18.8	25	113
17459	.344	206.7	137.0	−20.6	16	92
17464	.361	23.5	118.9	+16.4	8	32
17465	.518	147.2	109.0	−28.4	3	27
17467	.603	27.5	108.9	+29.5	221	1159
17466	.630	119.4	91.9	−20.2	76	332
May 14.327		(−21.2)	(114.7)	(− 2.7)		
17455	.978	289.6	190.7	+18.5	68	466
17456	.935	297.8	180.1	+24.7	44	270
17463	.663	250.8	154.8	−14.6	54	377
17458	.569	240.0	145.9	−18.8	16	89
17459	.466	228.7	136.5	−20.4	20	101
17464	.330	350.4	118.0	+16.3	1	5
17467	.543	10.6	108.1	+29.4	170	896
17466	.481	129.8	91.6	−20.3	64	330
May 15.320		(−20.9)	(101.6)	(− 2.6)		
17456	.987	295.4	180.0	+24.6	55	303
17463	.808	254.1	154.7	−14.4	47	243
17458	.725	246.3	145.9	−18.7	13	81
17459	.625	239.9	136.7	−20.4	16	82
17468	.472	321.5	119.6	+19.1	3	14
17467	.542	350.3	107.6	+29.6	137	839
17465	.460	190.2	106.9	−29.3	8	34
17466	.352	151.5	91.3	−20.5	70	343
17469	.957	60.9	32.3	+26.8	0	8
May 16.302		(−20.7)	(88.6)	(− 2.4)		
17463	.914	255.1	154.2	−14.5	33	232
17458	.853	249.5	145.9	−18.7	15	76
17459	.771	245.8	136.9	−20.0	18	89
17468	.630	308.3	120.3	+20.9	3	15
17467	.598	333.1	106.7	+29.8	110	784
17465	.526	204.9	103.5	−30.7	3	11
17466	.319	187.5	91.1	−20.8	74	347
17469	.887	58.4	31.3	+26.4	4	35
17470	.979	112.4	10.6	−22.4	26	164
May 17.641		(−20.3)	(70.9)	(− 2.3)		
17463	.990	256.0	152.9	−14.2	17	72
17458	.965	251.6	145.4	−18.4	9	43
17459	.919	249.5	136.8	−19.7	9	43
17468	.803	299.4	119.5	+21.7	13	84
17467	.726	317.0	105.7	+30.1	99	740
17471	.565	323.2	92.7	+24.6	6	32
17466	.456	224.6	90.9	−21.0	67	346
17469	.700	50.3	34.7	+24.6	7	61
17470	.898	114.1	8.5	−22.6	48	308
May 18.397		(−20.1)	(60.9)	(− 2.2)		
17458	.995	252.3	145.1	−17.8	0	24
17459	.969	250.3	136.3	−19.6	10	46
17468	.886	295.7	119.7	+21.4	21	83
17472	.826	241.4	113.6	−24.6	8	32
17467	.802	310.7	105.3	+29.9	89	639
17465	.752	228.9	102.2	−31.1	2	7
17471	.686	310.4	95.8	+24.5	5	24
17466	.571	235.1	90.9	−20.9	65	349
17473	.591	222.1	87.4	−27.9	3	17
17474	.578	19.4	48.0	+30.8	1	7
17469	.640	43.1	32.0	+25.8	9	61
17470	.814	116.4	9.0	−22.5	51	350
17475	.987	108.5	340.2	−18.6	0	55

Group 17467. May 11 - 21. A large complex spot, appearing suddenly. After a few days it begins to break up and take on stream formation, with a regular spot as leader. The group is decreasing in area as it passes out of view.
Group 17468. May 15 - 19. A few small spots.
Group 17469. May 15 - 26. A stream, growing from a tiny spot on May 15. By May 22 the leader has become a regular spot which is the sole survivor at the west limb.
Group 17470. May 16 - 28. A stream, in which the leader soon becomes a regular spot and alone remains by May 26.
Group 17471. May 17 - 22. A stream, developing in the western hemisphere and growing as it passes round the limb.
Group 17472. May 18 - 20. A miniature group, appearing near the west limb.
Group 17473. May 18 - 21. A pair of spots.
Group 17474. May 18 - 23. A tiny spot, seen only on May 18 and 23.
Group 17475. May 18 - 23. A small spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
May 19.351		(−19.8)	(48.3)	(− 2.1)		
17468	.949	294.8	117.1	+22.6	7	82
17472	.913	243.4	112.3	−25.0	9	51
17467	.895	305.8	105.4	+30.4	79	509
17465	.859	235.4	103.1	−30.3	0	17
17471	.824	301.4	98.5	+24.0	4	20
17466	.709	242.0	90.2	−21.0	66	363
17473	.720	231.6	87.9	−28.0	14	87
17469	.543	30.2	30.7	+25.9	19	131
17470	.700	121.4	8.0	−22.9	64	323
17475	.937	109.0	339.5	−18.5	13	65
17476	.977	112.4	330.9	−22.3	12	53
May 20.328		(−19.5)	(35.3)	(− 2.0)		
17472	.973	244.5	111.1	−25.2	15	98
17467	.959	302.0	104.7	+29.8	72	430
17471	.882	300.1	92.5	+25.1	43	204
17466	.840	246.3	90.5	−20.9	57	344
17473	.830	236.9	87.2	−28.2	27	152
17469	.474	7.3	31.5	+25.9	32	207
17470	.566	130.5	7.5	−23.3	72	382
17475	.839	110.5	339.7	−18.2	10	54
17476	.907	113.7	331.7	−22.3	11	48
17477	.912	105.1	330.1	−14.5	2	11
May 21.309		(−19.2)	(22.4)	(− 1.9)		
17467	.990	301.2	101.5	+30.5	41	201
17466	.936	248.6	90.9	−20.7	64	335
17471	.943	297.6	89.6	+25.1	102	583
17473	.931	240.6	88.8	−27.9	21	116
17478	.763	324.1	56.1	+36.5	4	11
17469	.495	345.8	30.2	+26.7	61	296
17470	.443	147.0	7.2	−23.6	78	452
17475	.707	114.2	339.8	−18.2	6	29
17476	.805	116.6	331.5	−22.3	12	39
17477	.798	107.1	330.5	−14.7	2	12
May 22.325		(−18.8)	(8.9)	(− 1.7)		
17466	.989	249.5	90.2	−20.5	46	285
17471	.986	296.3	86.9	+25.5	92	396
17478	.827	318.8	51.8	+37.1	6	39
17469	.580	322.2	32.0	+25.6	52	290
17470	.378	175.5	7.1	−23.7	59	420
17475	.541	121.4	340.0	−17.8	3	12
17476	.648	120.0	332.3	−20.2	26	103
17477	.646	110.8	330.5	−14.6	5	18
May 23.306		(−18.5)	(355.9)	(− 1.6)		
17478	.914	312.4	53.6	+37.2	19	94
17474	.866	306.3	49.3	+29.8	0	5
17469	.699	310.0	32.1	+25.3	45	213
17470	.421	204.4	6.8	−24.0	70	348
17475	.382	137.5	340.2	−17.8	1	4
17476	.482	129.7	332.9	−19.3	58	259
17477	.479	117.9	330.1	−14.4	3	12
May 24.296		(−18.2)	(342.8)	(− 1.5)		
17478	.969	309.6	53.0	+37.6	18	99
17469	.827	301.4	33.5	+24.5	35	209
17470	.541	223.8	7.0	−24.3	40	277
17476	.359	150.9	332.2	−19.6	146	652
17479	.600	127.3	311.8	−22.5	4	25
17480	.969	115.6	268.2	−25.1	4	18
May 25.333		(−17.8)	(329.1)	(− 1.4)		
17469	.929	297.2	34.1	+24.5	46	226
17470	.697	234.8	7.8	−24.7	39	208
17476	.326	189.4	332.3	−20.1	205	1136
17479	.442	143.4	312.7	−22.0	9	33
17480	.899	117.4	267.5	−25.1	0	10
17481	.946	106.2	258.7	−15.7	11	27
May 26.325		(−17.5)	(316.0)	(− 1.3)		
17469	.984	295.4	33.8	+24.7	38	214
17470	.832	240.4	8.8	−25.0	35	177
17476	.419	219.9	332.5	−19.9	213	1285
17479	.354	171.5	312.7	−21.7	15	103
17481	.848	107.7	259.2	−15.6	7	24
17482	.972	105.7	240.0	−15.5	116	679
May 27.341		(−17.2)	(302.5)	(− 1.1)		
17470	.931	243.2	9.0	−25.2	55	228
17476	.580	235.9	333.1	−19.9	239	1355
17479	.394	205.1	312.8	−21.9	18	89
17481	.729	111.2	257.7	−16.0	8	47
17483	.915	54.8	241.8	+31.2	6	22
17482	.902	106.7	239.0	−15.5	139	799

Group 17476. May 19 - 31. A large stream, growing rapidly from a small spot at the east limb. The leading part coalesces into a composite spot, while the rear remains a cluster.
Group 17477. May 20 - 23. A small spot.
Group 17478. May 21 - 24. Two or three small spots in high latitude.
Group 17479. May 24 - 31. A string of small spots.
Group 17480. May 24 - 25. A small spot.
Group 17481. May 25-June 3. Two or three small spots.
Group 17482. May 26-June 7. A large regular spot, followed by a train of small spots to form a stream. These followers, however, all disappear by June 5.
Group 17483. May 27 - 30. A pair of small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
May 28.317		(−16.8)	(289.6)	(− 1.0)		
17470	.983	244.6	8.0	−25.1	24	202
17476	.723	242.4	332.5	−20.2	204	1140
17479	.501	223.8	311.5	−22.0	10	37
17481	.580	117.2	257.2	−16.1	11	49
17483	.833	50.2	241.1	+31.5	12	79
17482	.788	108.6	239.1	−15.2	128	761
17484	.964	72.6	216.3	+16.4	26	204
17485	.988	67.5	210.0	+22.0	57	447
May 29.651		(−16.3)	(272.0)	(− 0.9)		
17476	.889	247.5	332.9	−20.2	165	1106
17479	.721	239.1	313.8	−22.3	16	88
17481	.361	137.1	257.2	−16.1	14	80
17483	.692	40.0	240.8	+31.1	13	39
17482	.575	114.7	239.5	−14.6	160	785
17484	.847	69.5	216.3	+16.7	43	179
17485	.921	64.8	207.6	+22.6	196	1256
May 30.311		(−16.1)	(263.2)	(− 0.8)		
17476	.944	249.2	332.7	−19.9	152	1027
17479	.834	244.3	317.0	−21.7	4	22
17486	.776	300.7	309.3	+22.7	6	26
17481	.281	160.5	257.6	−16.1	8	32
17482	.476	121.2	238.4	−15.0	134	662
17483	.653	34.8	237.4	+31.5	6	26
17484	.764	67.3	216.0	+16.6	35	197
17485	.855	62.7	208.0	+22.6	181	1046
May 31.313		(−15.7)	(250.0)	(− 0.7)		
17476	.982	248.7	328.2	−21.0	70	404
17479	.930	247.2	316.8	−21.4	0	7
17486	.902	296.2	311.4	+23.1	2	18
17481	.297	204.3	257.3	−16.3	12	64
17482	.314	142.3	238.6	−15.0	111	588
17484	.615	61.3	215.9	+16.5	32	182
17485	.740	57.9	207.4	+22.6	164	935
1374a	.805	104.6	197.4	−12.1	0	8
17487	.981	64.3	173.0	+25.0	35	161
June 1.437		(−15.3)	(235.1)	(− 0.5)		
17481	.459	233.3	257.5	−16.3	8	64
17482	.262	190.1	237.8	−15.4	106	587
17484	.434	47.3	215.7	+16.6	30	155
17485	.578	47.1	207.9	+22.6	123	842
17487	.916	62.1	171.9	+25.1	39	157
June 2.375		(−15.0)	(222.7)	(− 0.4)		
17481	.626	244.6	258.5	−15.8	6	38
17482	.379	228.4	239.7	−14.9	92	467
17484	.320	23.0	215.2	+16.6	41	171
17485	.452	29.0	209.0	+22.8	136	878
17487	.830	58.8	171.2	+25.1	28	150
17488	.969	105.0	147.7	−14.6	0	18
June 3.296		(−14.6)	(210.5)	(− 0.3)		
1374b	.853	294.6	266.2	+20.5	0	9
17481	.754	248.1	257.1	−16.4	6	25
17482	.538	242.0	239.8	−14.8	71	421
17484	.305	344.3	215.4	+16.7	31	147
17485	.395	0.4	210.3	+22.8	149	971
17487	.724	53.6	170.6	+25.1	30	145
17489	.699	118.2	169.9	−19.4	1	10
17488	.893	106.8	148.4	−15.1	10	48
June 4.620		(−14.1)	(193.0)	(− 0.2)		
17482	.763	250.7	240.9	−14.7	67	374
17484	.464	308.7	215.1	+16.6	25	122
17485	.483	324.9	210.5	+23.0	144	902
17487	.560	39.5	169.9	+25.3	28	134
17488	.732	110.7	148.0	−15.1	24	116
17490	.955	68.1	121.8	+20.8	8	42
June 5.325		(−13.8)	(183.6)	(− 0.1)		
17482	.859	253.4	241.5	−14.2	91	486
17484	.578	301.4	214.6	+17.4	12	93
17485	.577	313.0	210.8	+23.0	144	865
17489	.341	154.7	174.8	−18.0	5	20
17487	.485	27.2	169.5	+25.3	25	138
17488	.628	114.5	147.5	−15.1	17	93
17491	.746	123.8	140.8	−24.5	0	7
17490	.900	67.2	121.6	+20.3	6	21
June 6.382		(−13.4)	(169.6)	(+ 0.1)		
17482	.956	255.2	241.7	−14.1	81	487
17484	.737	293.6	214.4	+17.2	12	50
17485	.715	303.4	209.9	+23.1	114	754
17489	.323	193.7	174.2	−18.1	18	85
17487	.429	1.2	169.0	+25.4	23	148
17488	.450	126.5	147.7	−15.4	10	54
17490	.789	62.2	121.2	+21.6	4	23
17492	.991	119.5	88.7	−29.2	32	184

Group 17484. May 28-June 8. A regular spot with one or two small companions on June 2, 3 and 5.
Group 17485. May 28-June 9. A stream, in which the leading components coalesce to form a large complex spot, which alone remains by June 8.
Group 17486. May 30 - 31. A pair of small spots.
Group 17487. May 31-June 12. A small regular spot.
Group 17488. June 2 - 9. A few small spots.
Group 17489. June 3 - 11. A small group, not seen on June 4, with a brief maximum on June 7.
Group 17490. June 4 - 12. A few small unstable spots.
Group 17491. June 5 - 13. Intermittent. One or two unstable spots.
Group 17492. June 6 - 16. A regular spot, followed by some variable companions. The whole group dies out before reaching the limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
June 7.380		(−13.0)	(156.5)	(+0.2)		
17842	.996	255.7	241.0	−14.2	27	160
17484	.859	290.3	213.9	+17.4	9	31
17485	.848	297.6	211.1	+23.2	139	788
17489	.417	222.6	173.7	−17.6	33	171
17487	.470	335.6	168.9	+25.4	26	145
17488	.295	150.2	147.8	−14.6	6	12
17491	.487	152.7	142.3	−25.3	0	12
17490	.670	56.1	119.8	+22.0	5	25
17492	.962	120.4	85.1	−29.0	74	447
17493	.981	123.7	80.3	−32.9	13	58
June 8.303		(−12.6)	(144.2)	(+0.3)		
17484	.941	288.4	213.3	+17.4	7	26
17485	.930	294.9	210.5	+23.1	108	683
17489	.565	237.4	174.0	−17.4	17	92
17487	.566	319.0	168.4	+25.5	24	120
17488	.254	184.8	145.5	−14.3	1	7
17491	.398	178.3	143.5	−23.0	0	3
17490	.547	47.4	118.6	+21.9	0	3
17494	.861	118.0	88.4	−23.6	0	10
17492	.890	123.0	86.0	−28.8	82	420
17493	.937	125.6	79.4	−32.8	10	48
June 9.342		(−12.2)	(130.5)	(+0.4)		
17485	.985	293.9	209.6	+23.6	90	570
17489	.749	245.8	176.1	−17.5	10	40
17487	.699	308.0	168.0	+25.7	20	139
17488	.359	224.2	145.4	−14.4	0	5
17491	.451	207.0	143.3	−23.2	0	5
17490	.460	31.6	115.3	+23.3	3	8
17494	.733	123.8	89.0	−23.6	0	11
17492	.799	127.8	84.5	−28.9	62	351
17493	.858	129.7	78.8	−32.9	9	43
June 10.333		(−11.8)	(117.4)	(+0.5)		
17489	.870	250.7	176.1	−16.4	4	27
17487	.813	301.8	167.2	+25.6	19	114
17490	.398	6.6	114.5	+23.7	3	24
17494	.635	134.9	87.5	−26.1	5	18
17492	.693	135.2	83.6	−28.9	44	282
17493	.766	135.9	78.2	−32.8	3	35
17495	.927	74.9	50.3	+14.1	8	78
17496	.947	59.8	48.5	+28.6	3	20
June 11.335		(−11.4)	(104.1)	(+0.7)		
17489	.960	251.8	176.5	−17.2	0	23
17487	.911	298.4	166.9	+25.9	13	91
17490	.466	339.0	114.8	+26.4	0	9
17494	.516	145.9	85.6	−24.6	4	30
17492	.579	148.6	84.1	−28.8	37	176
17495	.836	72.6	48.7	+14.8	12	57
17496	.891	56.6	45.4	+29.7	9	32
17497	.942	66.2	35.3	+22.6	23	150
17498	.972	65.0	29.0	+24.4	20	169
June 12.335		(−11.0)	(90.9)	(+0.8)		
17487	.970	296.4	165.3	+25.7	14	69
17491	.813	240.6	141.0	−23.0	8	43
17490	.535	314.8	115.1	+22.8	1	8
17494	.447	173.8	87.8	−25.5	7	33
17492	.502	166.8	83.4	−28.4	20	114
17493	.592	159.0	76.4	−32.7	0	3
1374c	.734	143.4	58.6	−35.3	1	5
17495	.670	69.8	50.7	+13.9	9	40
17496	.777	52.2	46.5	+28.9	9	21
17497	.855	64.3	34.8	+22.1	19	158
17498	.913	63.5	27.3	+24.4	29	168
June 13.315		(−10.5)	(77.9)	(+0.9)		
17491	.915	244.1	141.2	−23.1	5	34
17492	.477	190.7	83.6	−26.9	9	72
17493	.544	171.9	72.8	−31.5	0	8
17495	.465	60.5	53.4	+14.0	3	13
17496	.642	43.7	47.8	+28.3	6	48
17497	.728	59.5	35.4	+22.3	32	159
17498	.811	59.9	27.6	+24.5	24	148
17499	.831	121.1	26.5	−24.8	8	28
17500	.968	116.3	4.7	−25.1	27	118
17501	.987	68.9	357.6	+21.0	6	36
June 14.306		(−10.1)	(64.8)	(+1.0)		
17492	.555	211.9	83.9	−27.0	8	63
17495	.281	39.1	54.3	+13.5	3	29
17496	.529	29.3	47.8	+28.3	5	17
17497	.587	51.9	35.0	+22.0	20	103
17498	.687	53.7	27.4	+24.7	22	125
17499	.705	128.1	27.2	−25.0	4	17

continued

Group 17493. June 7 - 15. Intermittent. Small unstable spots.
Group 17494. June 8 - 12. One or two unstable spots.
Group 17495. June 10 - 21. A few changing spots, not seen on June 17 and 20.
Group 17496. June 10 - 16. A pair of small spots, of which only one remains after June 13.
Group 17497. June 11 - 22. A pair of spots which begin to break up after June 16 and die out.
Group 17498. June 11 - 21. A small regular spot, followed by one or two variable companions until June 18.
Group 17499. June 13 - 16. One or two small spots.
Group 17500. June 13 - 24. A small regular spot.
Group 17501. June 13 - 25. A bi-polar group, of which the follower splits into two on June 20. The group is declining as it approaches the limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
June 14.306	*continued*					
17502	.745	47.6	25.1	+30.9	3	17
17500	.900	118.5	4.3	−24.9	26	119
17501	.940	68.2	356.1	+20.7	32	139
17503	.984	108.2	346.2	−17.7	0	14
17504	.997	107.3	340.0	−17.2	0	85
June 15.322		(−9.7)	(51.3)	(+ 1.1)		
17492	.664	227.3	84.0	−25.8	3	54
17493	.639	204.8	70.6	−34.3	1	9
17495	.222	343.3	55.0	+13.4	1	6
17496	.457	7.4	47.6	+27.9	3	12
17497	.449	37.8	34.1	+21.7	19	84
17499	.557	141.2	28.8	−24.6	5	33
17498	.545	42.3	27.6	+24.6	17	93
17502	.629	36.1	25.7	+31.4	37	163
17500	.796	123.1	4.1	−24.9	19	125
17501	.841	66.1	356.3	+20.5	83	391
17503	.913	109.6	347.2	−17.3	6	22
17504	.974	109.4	335.7	−18.6	53	292
June 16.342		(−9.2)	(37.8)	(+ 1.3)		
17492	.793	234.5	83.7	−26.4	3	37
17495	.298	322.5	48.6	+14.9	0	5
17496	.476	348.4	44.1	+28.9	0	4
17497	.359	10.8	33.7	+21.8	16	84
17499	.465	167.6	31.5	−25.6	2	17
17498	.432	21.7	27.7	+24.8	20	81
17502	.537	19.2	25.9	+31.6	65	347
17500	.673	130.8	3.8	−24.9	18	113
17501	.726	62.2	354.6	+20.7	144	740
17503	.790	112.8	348.4	−16.9	2	9
17504	.926	111.6	332.2	−19.3	90	493
June 17.451		(−8.8)	(23.2)	(+ 1.4)		
17497	.382	337.2	32.3	+22.0	14	69
17502	.513	354.7	26.4	+32.0	47	247
17498	.408	353.2	26.2	+25.1	16	77
17500	.541	145.2	3.4	−24.9	24	101
17501	.558	53.2	354.8	+20.7	118	752
17503	.615	120.4	349.7	−16.9	3	7
17504	.814	115.0	332.0	−19.2	68	417
June 18.320		(−8.4)	(11.6)	(+ 1.5)		
17495	.648	291.4	50.1	+14.8	1	18
17497	.489	317.1	32.6	+22.3	10	67
17498	.471	329.1	27.0	+25.1	13	56
17502	.557	337.8	26.0	+32.4	31	198
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
June 18.320	*continued*					
17500	.470	163.2	3.0	−25.1	22	103
17501	.442	41.2	353.5	+20.7	148	831
17503	.497	128.6	347.8	−16.6	27	98
17504	.704	120.6	331.7	−19.8	75	439
June 19.564		(−7.8)	(355.2)	(+ 1.6)		
17495	.837	287.4	50.9	+15.4	0	5
17497	.670	304.4	32.1	+23.5	9	50
17502	.691	317.9	28.2	+32.1	90	408
17498	.630	311.3	26.8	+25.9	6	35
17500	.467	195.2	2.9	−25.1	18	99
17501	.333	7.7	352.5	+20.7	174	808
17503	.341	159.8	348.2	−17.0	25	102
17504	.522	134.0	331.8	−19.7	94	599
17505	.966	58.6	282.1	+30.6	4	23
June 20.405		(−7.5)	(344.0)	(+ 1.7)		
17497	.784	297.9	32.4	+22.6	6	34
17502	.788	309.3	29.2	+31.1	147	957
17498	.737	303.6	26.6	+25.2	8	41
17500	.531	211.8	1.9	−25.1	16	92
17501	.362	338.0	352.3	+21.2	136	737
17503	.329	193.5	348.6	−16.9	11	84
17506	.199	349.9	346.0	+12.9	4	19
17504	.427	148.6	330.4	−19.6	98	598
17505	.907	55.7	282.7	+31.5	5	15
June 21.309		(−7.1)	(332.1)	(+ 1.8)		
17495	.967	284.2	47.1	+14.2	0	10
17497	.880	294.9	31.7	+22.6	0	13
17502	.887	304.2	30.5	+30.8	223	1327
17498	.846	298.4	26.9	+24.7	5	15
1375a	.846	236.5	24.1	−26.7	2	8
17500	.634	224.9	1.6	−25.0	15	87
17501	.470	316.1	352.5	+21.4	130	614
17503	.418	219.5	348.2	−17.0	1	10
17506	.302	310.7	345.6	+13.1	29	146
17504	.367	176.7	330.8	−19.6	89	506
17505	.836	52.5	281.1	+31.6	0	5
June 22.335		(−6.6)	(318.5)	(+ 2.0)		
17497	.962	291.7	32.0	+21.4	0	9
17502	.965	301.5	31.6	+30.8	199	1358
17500	.757	233.6	0.6	−25.1	17	74
17501	.615	302.6	352.1	+21.0	95	483
17503	.594	234.4	349.0	−18.4	4	23
17506	.496	293.2	346.3	+12.9	103	655
					continued	

Group 17502. June 14 - 23. A small bi-polar group until June 18, after which there is a big increase in area.
Group 17503. June 14 - 25. A group of small unstable spots.
Group 17504. June 14 - 27. A stream of changing spots, of which the follower is the largest and most stable component.
Group 17505. June 19 - 21. A single tiny spot on June 19 and 21; a pair on June 20.
Group 17506. June 20 - 26. A group growing rapdily from a few tiny spots appearing near the central meridian. The whole consists of three closely-linked composite spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
June 22.335	*continued*					
17504	.412	208.2	330.3	−19.2	65	501
17507	.380	149.1	306.8	−17.0	3	10
17508	.794	49.2	273.2	+32.5	0	4
17509	.982	105.1	240.6	−14.4	41	210
June 23.346		(−6.2)	(305.1)	(+ 2.1)		
17502	.990	301.8	26.5	+31.7	89	524
17500	.867	239.2	0.3	−25.1	9	62
17501	.762	296.4	352.0	+21.2	68	428
17503	.737	241.6	348.2	−18.9	1	18
17506	.677	287.4	346.5	+13.2	214	1112
17504	.553	228.8	331.2	−19.4	51	411
17507	.328	189.3	308.3	−16.7	0	5
17508	.701	39.8	272.4	+34.2	0	6
17509	.909	106.8	241.4	−14.3	25	170
17510	.926	113.8	240.1	−21.0	3	9
17511	.982	121.1	229.3	−29.9	52	212
June 24.480		(−5.7)	(290.1)	(+ 2.2)		
17500	.956	242.8	359.8	−25.1	12	54
17501	.895	292.5	352.2	+21.0	56	272
17503	.871	247.0	347.7	−18.7	10	23
17506	.847	285.1	347.3	+13.9	269	1338
17504	.692	237.9	328.5	−19.8	51	277
17509	.780	110.3	241.3	−14.2	34	144
17510	.822	119.8	239.7	−22.6	0	6
17511	.934	123.5	226.2	−30.0	47	264
17512	.973	66.0	214.1	+23.8	0	19
June 25.291		(−5.3)	(279.4)	(+ 2.3)		
17501	.964	291.9	353.4	+21.7	55	265
17503	.957	250.5	350.6	−17.9	8	54
17506	.929	284.7	347.3	+14.5	227	1495
17504	.803	243.3	328.8	−19.6	33	181
17513	.539	309.9	305.8	+22.2	1	5
17509	.660	114.6	241.3	−14.1	24	123
17510	.717	124.1	239.8	−21.8	0	4
17511	.864	127.1	226.8	−30.0	48	236
17512	.921	64.9	213.8	+24.0	0	9
June 26.327		(−4.8)	(265.7)	(+ 2.4)		
17506	.989	285.3	347.3	+15.5	111	682
17504	.912	246.6	328.5	−20.1	13	98
17513	.694	301.0	305.7	+22.7	3	19
17509	.489	125.2	241.5	−14.1	21	133
17511	.750	136.0	228.6	−30.6	38	166
June 27.307		(−4.4)	(252.7)	(+ 2.5)		
17504	.962	247.6	324.5	−20.7	0	25
17514	.344	321.2	265.7	+17.9	5	24
17509	.344	145.5	241.2	−13.9	20	120
17511	.656	145.4	227.2	−30.3	63	376
17505	.885	55.2	194.3	+31.6	5	25
17516	.923	119.8	189.8	−26.1	0	6
June 28.346		(−3.9)	(238.9)	(+ 2.6)		
1375b	.799	236.7	285.8	−24.2	4	15
17514	.517	301.6	266.4	+18.0	4	20
17509	.293	186.4	240.8	−14.3	22	112
17511	.581	160.7	226.1	−30.6	76	407
17505	.778	50.5	194.3	+31.5	21	108
17516	.837	125.5	189.0	−27.3	6	34
17517	.827	67.1	184.8	+20.3	17	74
17518	.985	61.3	159.1	+28.7	25	169
June 29.338		(−3.5)	(225.8)	(+ 2.8)		
17509	.381	220.3	240.5	−14.1	22	99
17511	.551	180.9	226.4	−30.5	39	350
17512	.433	31.9	211.3	+24.2	2	20
17515	.642	42.1	195.8	+30.8	81	467
17516	.719	132.8	189.7	−26.9	3	27
17517	.692	62.5	185.0	+20.7	42	212
1375c	.893	114.0	165.8	−19.9	2	12
17518	.939	60.0	157.6	+29.0	35	254
17519	.965	108.4	152.9	−16.9	7	68
17520	.985	113.7	148.2	−22.7	25	169

Group 17507. June 22 - 23. A tiny spot.
Group 17508. June 22 - 23. A tiny spot.
Group 17509. June 22-July 4. A regular spot.
Group 17510. June 23 - 25. A tiny spot.
Group 17511. June 23-July 5. A small regular spot, followed by one or two companions until July 1. On June 27 and 28 there is a brief increase in the area of one of the companions.
Group 17512. June 24-July 6. Intermittent. One or two small spots.
Group 17513. June 25 - 26. A tiny spot on June 25; a pair on June 26.
Group 17514. June 27 - 28. A pair of small spots.
Group 17515. June 27-July 7. A stream, of which the leader alone remains by July 6.
Group 17516. June 27-July 1. One or two small spots.
Group 17517. June 28-July 7. A regular spot, followed by a few companions until July 2.
Group 17518. June 28-July 10. A regular spot, followed by a few small companions until July 7. On July 8 the regular spot begins to split into two.
Group 17519. June 29-July 10. A diminishing regular spot, followed by a few companions until July 7.
Group 17520. June 29-July 11. A regular spot with occasional small companions. On July 5 it begins to divide into two and slowly diminish.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
June 30.424		(−3.0)	(211.4)	(+ 2.9)		
17509	.553	238.5	240.4	−14.2	23	124
17511	.582	200.2	224.8	−30.1	37	226
17512	.369	359.6	211.6	+24.5	9	43
17515	.542	28.0	194.2	+31.3	89	610
17516	.572	149.2	192.4	−26.6	4	13
17517	.515	53.3	185.4	+20.4	47	276
17518	.851	57.0	156.7	+29.3	54	339
17519	.875	111.4	153.2	−17.0	22	157
17520	.934	115.6	145.8	−22.6	54	338
17521	.975	118.0	137.4	−26.5	32	268
July 1.438		(−2.5)	(198.0)	(+ 3.0)		
17509	.710	246.3	240.0	−14.3	23	89
17511	.662	214.9	223.9	−30.1	31	164
17522	.346	330.9	208.3	+20.5	3	24
17512	.410	337.5	207.9	+25.1	13	64
17515	.476	5.1	195.2	+31.2	76	479
17516	.503	172.8	194.0	−26.8	3	16
17517	.364	31.8	186.2	+20.9	34	150
17518	.738	51.9	156.5	+29.2	69	358
17519	.753	115.0	152.8	−16.4	50	192
17520	.841	119.9	145.8	−23.0	51	308
17521	.918	120.3	136.2	−26.2	70	275
July 2.331		(−2.1)	(186.2)	(+ 3.1)		
17509	.828	250.5	239.6	−14.2	16	94
17511	.766	224.7	224.8	−30.5	23	167
17522	.466	309.5	208.6	+20.1	1	13
17512	.449	325.2	202.5	+24.5	24	111
17515	.489	344.7	194.8	+31.1	89	459
17517	.308	356.1	187.5	+20.9	30	123
17516	.500	182.1	187.4	−26.7	1	10
17518	.623	44.7	156.3	+28.9	62	329
17519	.620	122.0	153.1	−16.5	38	198
17520	.735	125.5	145.9	−22.8	49	273
17521	.835	124.9	136.4	−26.5	49	231
July 3.335		(−1.6)	(172.9)	(+ 3.2)		
17509	.929	253.0	239.3	−14.5	21	114
17511	.868	231.4	224.8	−30.7	18	103
17512	.574	310.4	201.5	+24.6	37	183
17515	.567	326.4	194.3	+31.1	86	485
17517	.394	320.6	188.3	+20.7	10	70
17518	.495	28.4	157.4	+28.8	66	335
17519	.454	136.5	153.9	−16.6	17	169
17520	.610	136.3	145.7	−23.3	51	261
17521	.766	130.0	131.9	−27.0	17	114
17523	.973	71.0	96.2	+19.2	19	153
July 4.332		(−1.2)	(159.7)	(+ 3.3)		
17509	.986	254.6	238.6	−14.5	12	53
17511	.941	235.8	224.1	−30.5	13	72
17512	.716	302.4	201.4	+25.0	23	116
17515	.680	313.8	194.4	+30.7	71	471
17517	.543	303.4	188.5	+20.2	8	40
17518	.429	5.8	156.9	+28.4	66	312
17519	.362	159.6	152.2	−16.5	25	175
17520	.507	152.2	144.8	−23.3	49	234
17521	.647	140.4	132.3	−26.9	20	196
17523	.908	70.6	95.1	+18.9	21	120
17524	.984	111.8	82.3	−20.7	49	307
July 5.350		(−0.7)	(146.2)	(+ 3.4)		
17511	.988	238.2	223.6	−30.7	13	126
17512	.846	298.3	201.6	+25.5	7	50
17515	.801	305.7	194.8	+30.1	55	282
17517	.704	295.6	188.6	+20.2	3	13
17518	.449	339.9	156.2	+28.2	50	293
17519	.356	199.7	153.3	−16.1	20	138
17520	.450	177.2	144.8	−23.2	43	234
17521	.552	155.9	131.6	−26.8	29	139
17525	.597	52.7	115.0	+24.1	2	14
17526	.810	124.3	98.9	−24.8	2	15
17523	.791	68.3	95.4	+19.1	14	73
17524	.926	113.9	81.7	−20.5	45	317
July 6.345		(−0.3)	(133.1)	(+ 3.5)		
17512	.921	296.5	199.0	+25.7	0	11
17515	.906	301.3	195.9	+29.7	27	211
17517	.837	291.7	188.7	+20.0	2	13
17518	.551	319.1	157.1	+27.7	57	312
17519	.472	226.5	153.8	−15.6	18	103
17520	.491	201.7	144.5	−23.6	31	192
17521	.511	175.7	130.6	−27.0	26	120
17525	.433	37.3	116.6	+23.4	10	48
17526	.683	132.3	99.6	−24.3	6	29
17523	.661	63.5	94.3	+19.8	18	113
17524	.837	117.3	80.8	−20.4	57	296
17527	.979	75.4	54.6	+15.0	10	100
July 7.581		(+0.3)	(116.7)	(+ 3.6)		
17515	.982	299.8	195.9	+29.9	36	192
17517	.953	289.9	188.9	+20.0	0	15
17518	.712	306.5	156.8	+27.7	63	301
17519	.668	241.3	154.1	−15.8	26	131
17520	.622	223.2	144.3	−23.7	38	198

continued

Group 17521. June 30-July 11. A small variable group.
Group 17522. July 1 - 2. A few faint spots.
Group 17523. July 3 - 16. A pair of small spots, suddenly developing into a stream on July 7. This, however, soon coalesces into a composite spot which is diminishing as it passes from view.
Group 17524. July 4 - 16. A regular spot, with occasional small companions. On July 10 it begins to split into two and is dying out as it approaches the limb.
Group 17525. July 5 - 12. A pair of small spots.
Group 17526. July 5 - 8. One or two small spots.
Group 17527. July 6 - 18. A slowly-developing stream until July 11, after which it begins to coalesce into two regular spots, of which only the follower remains at the limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
July 7.581	*continued*					
17521	.547	201.9	129.9	−26.9	18	85
17525	.332	359.1	117.0	+22.9	28	131
17526	.536	151.0	100.2	−24.4	7	39
17523	.514	55.5	90.0	+20.1	89	533
17524	.681	125.1	80.5	−20.1	56	293
17527	.891	75.4	53.9	+14.7	50	251
17528	.985	72.2	36.3	+18.1	25	144
July 8.459		(+0.7)	(105.1)	(+3.7)		
17518	.824	301.1	157.6	+27.5	45	273
17519	.793	247.3	154.2	−15.3	23	106
17520	.731	232.3	144.1	−23.6	26	153
17521	.621	216.1	129.2	−26.6	18	65
17525	.378	331.0	116.5	+22.8	28	187
17526	.488	172.3	101.0	−25.1	0	5
17523	.384	41.7	89.4	+20.2	157	791
17524	.565	135.1	80.0	−20.2	53	308
17527	.790	74.5	53.5	+14.5	50	240
17528	.928	72.3	37.2	+17.8	12	49
17529	.980	68.7	26.3	+21.6	34	216
17530	.994	57.9	20.5	+32.3	0	40
July 9.437		(+1.1)	(92.1)	(+3.8)		
17518	.912	298.6	156.4	+27.5	47	262
17519	.905	250.9	154.5	−15.5	16	80
17520	.839	238.5	143.3	−23.6	27	109
17521	.724	226.9	128.2	−26.5	6	20
17525	.496	311.1	115.9	+22.5	17	75
17523	.289	13.1	88.1	+20.1	121	731
17524	.454	153.8	79.8	−20.2	54	284
17527	.638	72.3	53.5	+14.1	31	166
17528	.846	71.5	35.0	+17.6	17	102
17529	.922	68.7	25.3	+21.1	32	178
17531	.944	114.7	24.9	−21.8	0	14
17530	.961	57.7	18.8	+32.1	37	216
July 10.542		(+1.6)	(77.5)	(+3.9)		
17518	.980	298.0	156.3	+28.2	52	216
17519	.981	253.4	154.5	−15.4	13	58
17520	.931	242.8	141.8	−23.5	16	74
17521	.841	234.6	127.4	−26.6	5	17
17525	.659	300.6	115.3	+22.6	12	50
17523	.327	329.7	87.6	+20.1	124	739
17524	.411	184.2	79.3	−20.2	43	318
17527	.441	64.8	53.3	+14.4	27	169
					continued	
July 10.542	*continued*					
17528	.694	68.2	35.1	+17.8	23	109
17531	.814	118.0	27.9	−19.9	0	4
17529	.801	66.8	25.7	+20.8	35	211
17530	.875	54.8	19.9	+32.3	46	206
17532	.990	75.0	355.3	+15.4	17	72
July 11.520		(+2.1)	(64.6)	(+4.0)		
17520	.984	245.3	141.3	−23.4	11	44
17521	.928	238.9	127.3	−26.8	3	12
17525	.795	295.9	115.3	+22.8	6	24
17523	.460	308.7	87.0	+20.4	95	631
17524	.482	209.6	79.3	−20.8	44	286
17533	.408	334.9	75.6	+25.5	14	65
17527	.273	47.1	52.7	+14.6	49	242
17528	.538	61.9	34.8	+18.1	29	169
17529	.664	62.7	25.6	+20.8	34	187
17531	.753	123.8	22.4	−21.8	2	10
17530	.776	50.1	19.8	+32.6	47	283
17534	.940	105.1	356.4	−12.7	3	19
17532	.950	76.3	352.6	+14.2	57	364
July 12.413		(+2.5)	(52.7)	(+4.1)		
17525	.885	294.9	113.9	+23.9	5	26
17523	.595	298.9	86.2	+20.1	77	659
17524	.589	225.1	79.1	−20.8	35	206
17535	.625	216.3	77.0	−26.4	6	19
17533	.520	316.9	75.9	+26.0	13	65
17536	.470	341.8	62.5	+30.5	5	21
17527	.183	356.3	53.4	+14.5	74	489
17528	.371	47.5	35.2	+18.4	48	244
17529	.502	55.2	26.7	+20.3	52	263
17530	.687	44.0	18.2	+32.9	34	187
17534	.854	107.7	356.4	−12.8	4	12
17532	.863	74.9	353.3	+15.1	40	265
July 13.365		(+2.9)	(40.2)	(+4.2)		
17523	.735	294.3	85.7	+20.5	73	479
17524	.715	234.9	78.8	−21.0	38	170
17533	.680	304.4	78.6	+25.9	11	52
17535	.734	227.0	77.0	−26.6	14	84
17536	.554	321.9	63.2	+29.6	0	8
17527	.288	309.2	53.5	+14.5	84	559
17528	.249	13.9	36.6	+18.1	47	221
17529	.363	38.2	26.4	+20.5	38	197
17530	.575	32.2	18.9	+32.9	24	141
17534	.730	112.0	356.4	−12.8	0	1
17532	.739	73.3	353.2	+15.1	36	191

Group 17528. July 7 - 19. A small group undergoing considerable changes.
Group 17529. July 8 - 16. A small regular spot, developing into a complex stream of small spots which quickly dies out after July 13.
Group 17530. July 8 - 18. A stream of small spots, developing from a pair when first seen. It dies out before reaching the limb.
Group 17531. July 9 - 11. A tiny variable spot.
Group 17532. July 10 - 17. A short stream, dying out near the central meridian.
Group 17533. July 11 - 15. A few small spots.
Group 17534. July 11 - 13. A tiny spot.
Group 17535. July 12 - 15. A stream of small spots.
Group 17536. July 12 - 13. One or two tiny spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
July 14.335		(+3.3)	(27.3)	(+ 4.3)		
17523	.863	291.1	86.2	+20.3	62	352
17533	.810	298.9	79.0	+25.7	8	34
17524	.832	240.0	78.0	−21.8	24	133
17535	.843	233.9	76.9	−26.9	17	64
17527	.470	293.9	53.6	+14.8	77	455
17528	.287	326.4	36.9	+18.0	29	144
17529	.285	6.5	25.3	+20.7	24	116
17530	.493	15.3	18.5	+32.5	17	86
17537	.566	57.9	356.5	+21.2	2	11
17532	.574	68.8	353.7	+15.5	37	142
17538	.994	106.1	305.3	−15.4	18	149
July 15.426		(+3.8)	(12.9)	(+ 4.4)		
17523	.961	289.4	87.2	+19.9	43	346
17533	.925	295.4	80.0	+25.1	6	30
17535	.949	239.8	79.4	−26.7	3	43
17524	.935	245.9	78.5	−20.6	13	71
17539	.832	285.8	68.9	+15.5	0	8
17527	.666	287.6	53.8	+14.9	52	351
17528	.454	302.6	36.5	+18.1	13	89
17529	.336	324.4	24.9	+20.1	7	39
17530	.487	350.6	18.3	+33.0	8	32
17532	.358	55.2	355.2	+16.0	10	57
17538	.943	108.2	304.8	−15.5	34	198
July 16.339		(+4.2)	(0.8)	(+ 4.5)		
17523	.994	290.2	82.3	+19.4	18	176
17524	.983	248.0	77.4	−20.6	11	101
17539	.927	285.6	68.9	+16.1	12	67
17527	.802	285.5	53.8	+15.1	59	315
17528	.598	295.0	35.5	+18.3	13	49
17529	.463	307.4	23.8	+20.4	5	35
17530	.536	332.8	17.6	+32.6	6	31
17537	.312	13.4	356.3	+22.1	1	8
17532	.236	30.4	353.7	+16.1	8	52
1375d	.442	28.0	347.4	+27.2	2	7
1375e	.341	57.2	343.6	+14.9	1	7
17540	.566	49.1	332.6	+25.7	11	36
17538	.859	111.0	304.7	−15.4	35	186
17541	.979	112.1	285.4	−20.5	22	113
July 17.330		(+4.7)	(347.7)	(+ 4.6)		
17539	.985	285.8	68.3	+16.3	34	210
17527	.906	284.5	52.7	+15.1	46	296
17528	.757	290.4	35.9	+18.4	9	42
17530	.639	318.5	17.7	+32.5	3	21
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
July 17.330	*continued*					
17532	.235	329.1	354.9	+16.1	5	15
17542	.427	170.0	343.2	−20.1	1	9
17540	.421	31.1	333.8	+25.5	20	75
17538	.737	115.9	304.4	−15.4	44	201
17541	.919	114.9	284.9	−20.7	17	110
July 18.299		(+5.1)	(334.9)	(+ 4.7)		
17527	.975	284.2	52.7	+14.9	40	203
17528	.872	288.3	35.3	+18.2	7	30
17530	.776	309.5	20.2	+32.8	0	6
17542	.455	192.7	341.0	−21.5	1	10
17540	.365	4.1	333.2	+25.9	27	177
17538	.590	124.0	304.6	−15.2	32	188
17541	.822	120.0	285.3	−21.2	16	88
July 19.315		(+5.5)	(321.4)	(+ 4.8)		
17528	.960	287.2	35.6	+17.9	4	25
17540	.395	338.3	330.7	+26.2	77	453
17538	.441	140.3	304.5	−15.2	30	214
17541	.699	127.7	285.1	−21.3	20	104
July 20.538		(+6.1)	(305.2)	(+ 4.9)		
17540	.531	313.7	330.3	+25.9	82	535
17543	.663	201.7	322.2	−33.2	1	6
17538	.341	178.5	304.7	−15.0	29	176
17541	.551	143.1	284.5	−21.5	8	62
17544	.997	111.8	222.3	−21.2	0	152
July 21.379		(+6.4)	(294.1)	(+ 5.0)		
17540	.646	304.6	330.1	+25.5	93	585
17543	.727	214.4	323.1	−32.4	1	7
17538	.386	208.0	304.9	−15.0	30	158
17541	.475	160.4	284.3	−21.5	7	50
17544	.976	113.0	219.9	−21.2	76	584
a	.971	112.8	221.2	−20.7	76	531
July 22.460		(+6.9)	(279.8)	(+ 5.1)		
17540	.783	300.4	328.8	+26.7	123	760
17543	.811	219.9	318.8	−34.5	0	12
17538	.531	230.9	304.9	−14.9	27	151
17541	.459	187.9	283.7	−21.8	4	16
17545	.574	119.5	249.2	−11.9	6	26
17544	.921	116.3	217.3	−21.7	232	1118
a	.897	116.7	220.8	−21.2	181	745

Group 17537. July 14 - 16. A tiny spot, not seen on July 15.
Group 17538. July 14 - 26. A stable regular spot.
Group 17539. July 15 - 17. A small group, developing near the west limb.
Group 17540. July 16 - 25. A pair of spots, developing into a stream.
Group 17541. July 16 - 23. A small regular spot, with a distant companion from July 21.
Group 17542. July 17 - 18. A tiny spot.
Group 17543. July 20 - 23. Tiny variable spots.
Group 17544. July 20 - Aug. 2. A stream, led by a large composite spot which becomes regular in outline as the group approaches the limb.
Group 17545. July 22 - 25. One or two small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
July 23.305		(+7.3)	(268.6)	(+ 5.2)		
17540	.878	298.1	328.8	+27.1	179	1173
17543	.896	228.9	322.0	−33.0	6	13
17538	.661	239.9	304.8	−15.1	28	137
17541	.507	206.9	282.8	−21.8	1	10
17545	.415	133.3	250.7	−11.5	3	16
1376a	.626	120.8	235.0	−14.3	1	4
17544	.838	119.0	217.2	−20.7	255	1372
a	.814	120.9	220.3	−21.2	194	949
July 24.323		(+7.7)	(255.2)	(+ 5.2)		
17540	.956	296.3	328.4	+26.6	133	897
17538	.803	246.9	304.9	−15.0	23	179
17545	.293	176.5	254.2	−11.7	4	16
17544	.711	128.7	218.5	−22.1	255	1318
a	.689	129.9	220.6	−21.9	214	1041
July 25.335		(+8.1)	(241.8)	(+ 5.3)		
17540	.988	296.9	324.4	+27.4	38	346
17538	.912	250.9	304.8	−15.0	38	217
17545	.365	216.5	254.6	−11.8	1	5
17546	.362	9.1	238.2	+26.1	9	54
17544	.586	140.2	218.1	−21.8	246	1337
a	.569	142.3	219.9	−21.7	205	1083
July 26.306		(+8.5)	(228.9)	(+ 5.4)		
17538	.977	253.7	304.5	−14.7	21	143
17546	.399	335.0	239.7	+26.4	47	260
17544	.497	156.8	216.8	−21.8	209	1191
a	.483	162.7	220.0	−22.0	150	679
17547	.913	62.3	163.5	+27.5	23	90
17548	.985	115.8	152.7	−24.1	20	116
July 27.316		(+8.9)	(215.6)	(+ 5.5)		
17546	.516	315.1	239.5	+26.4	46	307
17544	.460	182.9	217.0	−21.7	241	1139
a	.463	187.6	219.4	−21.7	180	776
17547	.806	60.5	164.0	+26.8	32	123
17548	.953	118.7	148.3	−25.2	34	244
17549	.982	124.0	142.5	−31.8	5	60
17550	.995	117.9	135.3	−26.9	0	43
July 28.351		(+9.4)	(201.9)	(+ 5.6)		
17551	.720	296.4	246.1	+22.7	0	3
17546	.657	304.6	238.9	+26.4	45	230

continued

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
July 28.351	continued					
17544	.522	207.2	216.8	−22.1	199	1046
a	.532	210.3	218.6	−21.8	163	734
17547	.667	56.1	164.0	+26.2	18	121
17548	.878	123.0	147.5	−25.3	28	232
17552	.909	110.6	139.8	−16.1	0	13
17549	.945	127.0	139.0	−32.2	13	72
17550	.957	120.8	134.4	−27.3	22	160
17553	.990	118.4	124.3	−27.0	0	45
17554	.992	67.7	117.8	+22.8	0	27
July 29.352		(+9.8)	(188.6)	(+ 5.6)		
17551	.849	291.7	246.2	+21.3	5	22
17546	.796	298.2	239.5	+25.6	19	154
17544	.627	223.3	216.2	−22.1	178	973
a	.642	225.4	218.0	−21.8	148	723
17547	.518	46.2	164.1	+26.0	10	64
17548	.774	128.8	147.1	−24.8	30	212
17552	.784	114.6	141.1	−15.2	4	22
17549	.874	132.2	138.7	−32.3	15	64
17550	.886	124.8	134.0	−27.1	19	157
17553	.951	120.8	122.4	−26.9	3	34
17554	.961	66.4	114.0	+24.1	13	114
July 30.294		(+10.2)	(176.2)	(+ 5.7)		
17551	.926	290.6	244.3	+21.2	3	24
17546	.888	296.2	238.2	+25.8	21	127
17544	.744	232.8	215.9	−22.3	188	960
a	.758	234.4	217.7	−21.9	161	758
17547	.389	28.3	164.5	+25.5	3	34
17548	.668	138.4	147.0	−24.9	29	161
17552	.627	122.4	143.1	−14.8	15	95
17549	.790	140.2	139.4	−32.8	6	35
17550	.799	131.0	133.6	−27.4	31	141
17553	.882	126.2	122.6	−28.0	2	24
17554	.895	65.7	113.0	+24.3	11	91
17555	.992	72.0	92.2	+18.5	34	306
July 31.328		(+10.6)	(162.5)	(+ 5.8)		
17546	.969	294.9	239.0	+25.5	18	123
17544	.859	239.9	215.7	−22.1	165	910
a	.869	240.8	217.1	−21.8	147	777
17547	.339	357.0	163.6	+25.5	4	27
17548	.553	155.8	148.1	−24.6	15	63
17552	.467	138.0	143.7	−14.8	42	271
17549	.705	151.6	139.0	−32.9	4	17

continued

Group 17546. July 25 - 31. A small stream.
Group 17547. July 26-Aug. 5. A stream of small changing spots.
Group 17548. July 26-Aug. 4. A wide pair of spots, slowly breaking up and diminishing. By August 2 only the leader remains.
Group 17549. July 27 - 31. A pair of small spots, soon dying out.
Group 17550. July 27-Aug. 8. A small regular spot until August 1. On the next day a stream appears which is slowly dying out as it approaches the limb.
Group 17551. July 28 - 30. One or two tiny spots.
Group 17552. July 28-Aug. 7. A stream of normal type, developing from a tiny spot on July 28. Only the leader remains at the limb.
Group 17553. July 28 - 31. A small spot.
Group 17554. July 28-Aug. 6. One or two small variable spots.
Group 17555. July 30-Aug.12. A large composite spot, followed by a few small companions.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
July 31.328	*continued*					
17550	.693	140.6	132.9	−27.3	22	167
17553	.787	134.1	122.5	−28.7	0	15
17554	.776	63.4	113.2	+24.1	15	84
17555	.946	72.2	90.8	+18.7	126	746
17556	.972	77.3	85.4	+13.7	86	481
Aug. 1.366		(+11.0)	(148.8)	(+ 5.9)		
17544	.944	243.6	214.8	−22.5	146	923
a	.953	244.8	216.8	−21.8	130	810
17547	.414	326.8	163.3	+25.9	15	116
17548	.512	178.4	147.9	−24.8	8	42
17552	.370	167.0	143.9	−15.1	53	267
17550	.604	154.8	132.0	−27.4	23	114
17554	.603	57.7	115.1	+23.6	7	39
17557	.802	65.9	96.4	+22.8	7	28
17555	.849	71.6	90.8	+18.7	151	784
17558	.902	117.5	89.6	−21.6	5	21
17556	.889	77.8	85.7	+13.5	67	400
17559	.970	74.8	72.0	+16.1	26	156
Aug. 2.538		(+11.5)	(133.3)	(+ 5.9)		
17544	.989	244.9	211.0	−23.6	43	333
a	.993	246.2	213.1	−22.6	20	167
17547	.569	308.5	162.8	+25.9	23	164
17548	.576	209.8	151.5	−24.3	5	23
17552	.414	207.7	144.8	−15.6	54	273
17550	.563	174.7	129.9	−28.0	38	184
17554	.396	39.6	117.4	+23.3	5	29
17557	.640	60.5	96.2	+23.0	3	25
17558	.763	124.4	91.0	−21.2	2	14
17555	.689	68.9	90.7	+18.7	166	972
17556	.739	76.5	85.7	+13.9	81	426
17559	.875	73.9	72.1	+16.9	20	110
17560	.978	65.4	54.0	+25.3	10	112
Aug. 3.292		(+11.8)	(123.3)	(+ 6.0)		
17547	.696	299.5	164.9	+24.5	17	79
17548	.656	220.6	151.2	−24.5	3	14
17552	.512	225.1	145.3	−15.5	47	236
17550	.554	187.8	128.1	−27.2	22	129
17554	.323	16.4	117.6	+24.0	3	12
17557	.506	54.5	97.0	+22.4	5	37
17558	.666	131.6	91.2	−21.1	0	3
17555	.567	66.0	90.4	+18.3	160	1016
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Aug. 3.292	*continued*					
17556	.617	75.2	85.6	+13.8	81	390
17559	.780	72.2	72.3	+17.6	21	100
17560	.935	65.2	53.7	+25.3	15	68
Aug. 4.294		(+12.1)	(110.1)	(+ 6.1)		
17547	.822	295.9	164.3	+24.6	15	87
17548	.741	229.1	147.8	−24.1	0	12
17552	.651	238.7	145.1	−14.7	56	302
17550	.611	206.5	127.9	−27.3	16	88
17554	.326	352.3	112.8	+24.8	6	33
17557	.363	38.9	95.9	+22.3	15	82
17555	.390	55.1	90.5	+18.6	138	947
17558	.575	142.3	88.0	−21.3	16	67
17556	.431	70.5	85.5	+13.8	84	377
17559	.632	69.1	71.9	+17.8	8	29
17560	.842	63.9	53.7	+25.1	8	47
Aug. 5.319		(+12.5)	(96.5)	(+ 6.1)		
17547	.939	293.7	166.9	+24.3	13	73
17552	.799	245.7	145.3	−15.2	35	276
17550	.713	221.1	128.2	−27.2	10	76
17554	.418	316.5	114.7	+23.4	8	57
17557	.279	2.2	95.8	+22.2	12	53
17555	.241	26.6	90.0	+18.4	138	947
17558	.476	164.9	88.9	−21.2	8	33
17556	.237	55.3	85.0	+13.7	85	387
17559	.432	62.7	72.9	+17.0	3	19
17560	.708	60.1	54.0	+25.1	6	26
17561	.942	77.0	25.5	+14.2	3	13
17562	.997	67.8	9.3	+22.5	30	390
a	.997	67.8	9.3	+22.5	30	390
Aug. 6.379		(+12.9)	(82.5)	(+ 6.2)		
17552	.922	250.5	146.5	−15.2	19	151
17550	.834	231.8	129.6	−26.8	8	45
17554	.603	301.2	116.5	+23.3	3	17
17557	.363	320.9	96.8	+22.3	5	15
17555	.249	326.0	90.9	+18.0	122	859
17558	.465	195.1	89.9	−20.4	6	26
17556	.142	344.9	84.7	+14.1	77	383
17559	.240	28.7	75.6	+18.2	1	19
17563	.555	143.5	61.9	−20.6	3	8
17560	.551	50.8	54.3	+25.8	3	15
17561	.801	77.1	29.1	+14.0	8	34
17562	.963	68.4	7.1	+22.5	64	854
a	.959	68.5	8.1	+22.3	64	769

Group 17556. July 31-Aug. 2. A slowly-diminishing regular spot.
Group 17557. Aug. 1 - 7. A few small changing spots, of which only one remains by August 6.
Group 17558. Aug. 1 - 9. One or two small spots.
Group 17559. Aug. 1 - 9. A few variable spots.
Group 17560. Aug. 2 - 7. A pair of small widely-separated spots.
Group 17561. Aug. 5 - 9. A few small spots.
Group 17562. Aug. 5 - 18. A stream of normal type, of which only the leader and follower remain after August 14.
Group 17563. Aug. 6 - 7. A tiny spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Aug. 7.327		(+13.3)	(69.9)	(+ 6.2)		
17552	.992	253.3	150.3	−15.6	19	122
17550	.917	237.1	129.3	−26.8	6	29
17557	.505	304.3	96.5	+22.0	3	13
17558	.554	219.0	91.5	−19.6	5	22
17555	.398	303.0	90.4	+18.3	154	976
17556	.281	300.9	84.2	+14.3	76	376
17559	.211	341.7	73.9	+17.7	4	16
17564	.359	2.1	69.1	+27.1	5	30
17563	.461	164.7	62.5	−20.1	0	8
17560	.421	58.3	53.2	+25.1	3	12
17561	.656	77.1	29.0	+13.1	9	44
17562	.897	67.4	6.1	+23.0	90	831
a	.886	67.6	7.5	+22.6	76	696
17565	.948	69.3	357.7	+21.6	11	72
17566	.990	66.7	346.3	+23.9	17	110
Aug. 8.305		(+13.7)	(57.0)	(+ 6.3)		
17550	.977	240.5	129.4	−27.0	0	32
17558	.691	233.5	92.9	−19.1	3	17
17555	.574	293.3	90.6	+18.4	156	966
17556	.469	288.9	84.1	+14.3	86	389
17559	.331	303.9	73.6	+16.7	0	30
17564	.410	329.1	70.6	+26.6	11	49
17561	.499	73.9	27.6	+13.4	10	82
17562	.791	65.7	5.7	+23.0	131	945
a	.774	65.7	7.3	+22.7	94	651
b	.856	64.9	358.7	+24.6	17	172
17565	.857	69.1	358.2	+21.1	22	117
17566	.939	66.7	346.5	+24.0	16	72
Aug. 9.297		(+14.0)	(43.9)	(+ 6.4)		
17558	.820	241.6	93.4	−18.8	0	6
17555	.733	289.2	90.5	+18.4	120	838
17556	.649	284.8	84.1	+14.4	67	329
17564	.573	307.2	74.2	+25.8	5	16
17559	.518	298.4	72.7	+19.8	5	27
17561	.315	62.6	27.2	+14.4	3	18
17562	.657	61.8	5.1	+23.0	134	808
a	.630	61.6	7.2	+22.6	94	534
b	.736	62.3	358.4	+24.5	30	193
17565	.727	66.6	358.4	+21.3	18	119
17566	.848	65.4	346.4	+24.1	8	77
17567	.973	106.6	329.7	−14.5	98	590
17568	.992	111.7	324.5	−20.4	0	27
17569	.987	63.5	321.5	+27.1	0	21
Aug.10.446		(+14.5)	(28.7)	(+ 6.4)		
17555	.881	287.0	90.8	+17.9	120	768
17556	.820	283.0	84.0	+14.3	56	329
17564	.743	298.7	74.7	+25.3	1	10
17562	.484	52.2	4.2	+23.1	121	742
a	.453	50.1	6.7	+22.8	90	449
b	.585	56.1	356.6	+24.5	23	193
17565	.557	60.9	357.4	+21.2	16	73
17566	.706	61.5	345.9	+24.4	8	45
17567	.890	110.0	329.1	−14.5	89	571
17568	.960	110.3	318.3	−17.4	29	231
Aug.11.603		(+14.9)	(13.4)	(+ 6.5)		
17555	.975	287.3	91.8	+18.3	65	567
17556	.942	282.9	84.5	+14.3	57	310
17564	.847	296.1	70.6	+25.5	5	30
17562	.336	30.8	2.7	+23.1	119	831
a	.307	22.5	6.1	+22.9	81	537
b	.409	41.0	356.4	+24.1	33	257
17565	.391	49.9	354.8	+20.7	10	36
17566	.547	54.7	344.2	+24.1	3	16
17567	.744	116.3	330.0	−14.5	82	498
17568	.842	116.9	321.2	−18.5	31	272
17570	.929	61.2	304.9	+29.1	3	15
17571	.952	108.3	304.1	−15.2	23	97
Aug.12.290		(+15.1)	(4.3)	(+ 6.5)		
17555	.994	286.9	89.5	+17.5	9	140
17556	.982	283.3	84.4	+14.2	36	249
17564	.906	295.3	69.3	+25.6	6	32
17572	.545	182.9	6.1	−26.4	1	11
17562	.291	6.0	2.4	+23.2	110	749
a	.284	356.0	5.5	+22.9	69	489
b	.327	24.3	355.9	+23.7	34	201
17565	.291	32.6	354.7	+20.5	7	26
17566	.410	42.3	346.8	+23.8	3	8
17567	.636	122.1	330.7	−14.3	84	406
17568	.753	122.7	322.3	−19.1	64	385
17569	.707	58.1	322.2	+26.7	0	6
17570	.858	59.8	306.4	+29.1	2	11
17571	.895	110.7	304.3	−15.2	12	71
Aug.13.618		(+15.6)	(346.8)	(+ 6.6)		
17564	.988	295.3	69.6	+25.9	0	50
17572	.622	206.9	5.2	−27.3	1	9

continued

Group 17564. Aug. 7 - 13. One or two small spots.
Group 17565. Aug. 7 - 14. One or two small spots just south of the follower of Group 17562.
Group 17566. Aug. 7 - 17. A few small spots.
Group 17567. Aug. 9 - 20. A double spot, soon dividing and, with other small spots, forming a stream of which the leader alone remains by August 19.
Group 17568. Aug. 9 - 21. One or two spots, soon developing into a complex group, of which the principal component is a large double spot which alone remains by August 19.
Group 17569. Aug. 9 - 12. One or two faint spots, seen only on August 9 and 12.
Group 17570. Aug. 11 - 18. A few changing spots.
Group 17571. Aug. 11 - 16. A small spot.
Group 17572. Aug. 12 - 13. A tiny spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Aug.13.618	*continued*					
17562	.377	321.2	1.7	+23.5	80	549
a	.414	315.8	5.1	+23.5	53	372
b	.319	333.4	355.7	+23.0	22	139
17565	.273	332.2	354.6	+20.5	3	8
17566	.286	4.4	345.4	+23.1	1	17
17567	.439	142.7	331.0	−14.0	74	377
17568	.575	139.0	323.3	−19.6	111	782
17570	.680	54.9	307.8	+28.2	28	164
17571	.741	117.8	304.1	−15.4	7	36
17573	.996	69.8	260.2	+20.6	48	293
Aug.14.323		(+15.8)	(337.5)	(+ 6.6)		
17562	.485	307.8	2.0	+23.3	79	541
a	.517	305.8	4.6	+23.5	57	375
b	.401	315.6	355.1	+22.8	19	131
17565	.370	311.7	354.6	+20.5	1	5
17566	.361	334.4	347.4	+25.4	5	22
17567	.373	163.8	331.4	−14.3	72	371
17568	.499	152.4	323.3	−19.7	119	859
17570	.573	48.4	308.6	+28.0	45	270
17571	.640	124.2	304.3	−15.5	9	30
17573	.973	70.2	259.6	+20.7	83	458
Aug.15.323		(+16.2)	(324.2)	(+ 6.7)		
17562	.644	298.6	2.0	+23.2	72	443
a	.667	298.0	4.0	+23.4	62	382
b	.555	302.2	354.7	+23.0	10	61
17566	.483	310.2	348.4	+24.5	12	47
17567	.377	199.8	331.7	−14.1	49	344
17568	.449	177.6	323.1	−19.9	134	876
17570	.444	34.6	307.7	+27.8	21	102
17571	.497	138.1	304.2	−15.4	4	10
17573	.906	69.9	258.7	+21.0	94	455
17574	.984	63.8	242.7	+26.9	14	74
Aug.16.560		(+16.6)	(307.9)	(+ 6.7)		
17562	.826	294.1	3.0	+23.6	55	339
a	.832	294.1	3.7	+23.7	51	321
b	.741	295.4	354.4	+23.2	4	18
17566	.658	301.2	346.2	+25.1	3	15
17567	.522	227.6	331.2	−14.4	48	270
17568	.513	208.6	323.0	−20.2	128	785
17575	.513	335.4	322.8	+34.1	0	5
17570	.384	3.8	306.2	+29.1	13	55
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Aug.16.560	*continued*					
17571	.379	170.8	304.3	−15.2	3	12
17573	.768	67.9	258.4	+21.2	97	440
17574	.907	63.2	242.7	+27.1	35	206
17576	.942	114.4	242.0	−20.2	3	21
17577	.972	41.8	231.1	+48.3	38	238
Aug.17.594		(+16.9)	(294.2)	(+ 6.8)		
17562	.924	293.1	2.3	+23.9	48	276
a	.929	293.0	3.1	+23.8	43	257
b	.880	293.1	355.9	+23.5	5	19
17566	.803	296.5	346.6	+25.2	4	9
17567	.678	240.6	331.5	−14.0	46	212
17568	.631	224.9	322.5	−20.5	107	660
17570	.404	331.5	306.7	+27.3	11	47
17578	.603	148.1	273.8	−24.3	0	1
17579	.659	127.9	261.1	−18.2	9	33
17573	.617	63.9	257.9	+21.2	83	391
17574	.794	61.3	243.2	+26.7	32	121
17576	.850	119.1	242.0	−20.2	2	10
17577	.941	40.5	227.0	+48.6	60	311
1377*a*	.944	70.2	222.5	+20.9	0	27
17580	.964	67.5	218.4	+23.5	9	43
17581	.995	113.3	213.3	−22.3	43	307
17582	.995	110.7	213.0	−19.7	24	129
Aug.18.548		(+17.2)	(281.6)	(+ 6.8)		
17562	.974	292.6	359.9	+23.5	34	133
a	.984	292.8	3.1	+23.6	25	93
b	.952	292.4	354.8	+23.4	0	14
17567	.810	247.2	331.7	−13.9	31	160
17568	.761	234.2	323.0	−21.3	81	525
17575	.738	315.0	322.0	+36.6	15	53
17570	.511	316.7	304.9	+28.0	3	16
17583	.500	208.2	296.1	−19.4	0	5
17578	.534	170.1	275.8	−24.8	6	20
17579	.533	141.7	261.3	−18.3	47	170
a	.504	145.4	264.2	−17.9	17	69
b	.568	137.4	257.8	−18.4	16	53
17573	.463	55.7	257.5	+21.3	78	368
17574	.673	57.2	242.5	+26.7	16	43
17576	.810	122.8	234.8	−21.3	19	65
17577	.885	38.0	226.7	+48.3	48	261
17580	.884	67.9	219.2	+22.6	8	35
17582	.952	113.0	213.5	−19.4	26	147
17581	.962	116.0	212.2	−22.6	103	481
17584	.977	119.2	209.3	−26.6	12	32

Group 17573. Aug. 13 - 26. A stable regular spot with several small companions.
Group 17574. Aug. 15 - 23. A few small spots, not seen on August 21.
Group 17575. Aug. 16 - 21. A few small spots, not seen on August 17.
Group 17576. Aug. 16 - 27. A tiny spot, developing into a stream of normal type. Only the leader remains at the west limb.
Group 17577. Aug. 16 - 30. A slowly-diminishing regular spot in high northern latitude, followed by a few small companions until August 24.
Group 17578. Aug. 17 - 25. A short stream, developing from a tiny spot on August 17.
Group 17579. Aug. 17 - 26. A stream, of which the leader becomes composite, while the follower soon breaks up and dies out before reaching the limb.
Group 17580. Aug. 17 - 23. One or two small spots, not seen on August 22.
Group 17581. Aug. 17 - 29. A stable regular spot.
Group 17582. Aug. 17 - 24. One or two small spots.
Group 17583. Aug. 18 - 19. A tiny spot.
Group 17584. Aug. 18 - 29. A few small spots when first seen, growing into an elongated spot which dies out before reaching the limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Aug. 19.338		(+17.5)	(271.2)	(+ 6.9)		
17567	.912	251.4	333.8	−13.8	11	82
1377b	.904	229.9	325.4	−31.7	0	6
17568	.847	239.3	322.4	−21.3	113	498
17575	.815	310.3	321.5	+36.3	38	206
17583	.596	220.3	295.4	−20.7	0	3
17578	.528	187.7	275.6	−24.5	32	113
17579	.446	159.9	261.9	−17.9	64	327
a	.428	165.8	264.9	−17.5	35	173
b	.482	152.5	257.0	−18.5	21	105
17573	.342	41.3	257.2	+21.5	98	433
17574	.554	51.1	242.6	+26.4	6	36
17576	.718	128.5	234.3	−21.0	57	233
17585	.669	68.1	230.1	+19.7	0	1
17577	.842	35.0	224.7	+48.4	44	239
17580	.814	66.1	217.3	+23.3	4	14
17582	.860	116.7	217.2	−18.7	17	76
17581	.908	118.3	211.8	−22.0	126	565
17584	.941	120.5	207.4	−25.6	31	146
17586	.928	111.1	206.8	−16.6	0	3
17587	.949	105.4	202.0	−12.2	8	28
Aug. 20.312		(+17.8)	(258.3)	(+ 6.9)		
17567	.978	254.2	333.7	−13.8	12	96
17568	.936	243.8	322.6	−21.5	95	447
17575	.902	307.6	321.0	+36.6	37	169
17578	.577	206.6	274.7	−24.3	32	168
17579	.426	186.2	261.1	−18.1	104	503
a	.428	196.0	265.4	−17.3	37	161
b	.428	178.6	257.7	−18.3	37	182
17573	.263	3.8	257.2	+22.0	100	467
17574	.400	33.2	244.2	+26.2	4	19
17576	.587	141.4	235.3	−20.9	72	355
17585	.527	56.6	229.9	+22.9	3	16
17577	.781	29.8	222.8	+48.2	48	222
17582	.736	123.4	218.0	−18.6	13	81
17580	.682	63.1	217.1	+23.1	3	12
17581	.812	124.2	211.9	−22.5	120	531
17584	.868	125.3	206.5	−25.9	87	433
17588	.819	56.7	205.6	+30.9	0	4
17587	.838	109.7	204.6	−12.4	5	16
Aug. 21.329		(+18.1)	(244.9)	(+ 6.9)		
17568	.989	246.4	322.5	−22.0	59	344
17575	.963	306.4	320.3	+36.9	30	170
17578	.692	223.7	276.4	−24.1	53	331
17579	.495	211.1	260.5	−18.3	123	688
a	.518	216.5	263.7	−18.0	66	381
b	.476	204.6	256.9	−18.8	57	307
17573	.333	323.3	257.3	+22.1	136	555
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Aug. 21.329 *continued*						
17576	.487	161.4	235.4	−20.5	73	415
17585	.371	41.9	229.4	+22.6	11	74
17577	.729	24.0	218.7	+47.9	43	242
17582	.602	134.7	218.1	−18.8	9	34
17580	.556	56.8	214.5	+23.6	0	5
17581	.698	132.9	211.4	−22.6	108	485
17589	.625	66.4	207.5	+19.9	1	9
17584	.768	133.3	206.4	−26.4	90	640
17587	.706	116.1	204.5	−12.8	1	10
17588	.708	52.0	204.4	+31.1	6	33
17586	.751	121.1	202.6	−17.7	0	4
Aug. 22.599		(+18.5)	(228.1)	(+ 7.0)		
17578	.835	234.9	276.4	−24.1	93	470
17579	.661	231.3	260.9	−18.5	141	696
a	.688	234.5	264.0	−17.8	82	412
b	.617	227.1	256.4	−18.0	59	284
17590	.578	310.2	258.0	+28.0	19	85
17573	.518	302.1	256.2	+22.1	112	495
17574	.439	330.1	242.5	+29.0	0	3
17576	.480	193.3	234.9	−20.8	74	360
17585	.270	353.7	229.9	+22.5	15	58
17577	.675	11.1	216.9	+48.2	39	196
17582	.466	156.7	216.9	−18.4	4	20
17589	.339	50.7	212.1	+19.1	1	7
17581	.563	151.3	211.1	−22.8	96	448
17584	.639	148.7	206.4	−26.5	95	649
17588	.534	39.3	205.0	+30.8	33	183
17587	.518	130.6	204.4	−13.2	3	6
17591	.988	115.2	151.2	−23.5	16	57
Aug. 23.318		(+18.7)	(218.6)	(+ 7.0)		
17578	.901	238.7	276.0	−24.3	101	609
17579	.757	237.7	260.9	−18.7	169	838
a	.784	239.9	264.0	−18.2	106	543
b	.717	234.9	256.8	−18.8	63	295
17590	.678	304.5	257.7	+28.0	42	234
17573	.639	297.1	256.4	+22.5	110	499
17574	.511	315.3	242.4	+27.6	1	3
17576	.536	210.5	235.4	−20.7	47	280
17585	.313	329.4	228.5	+22.5	15	67
17580	.299	6.6	216.4	+24.2	0	14
17582	.436	174.7	216.2	−18.6	1	13
17577	.662	2.7	215.9	+48.2	40	185
17581	.512	165.9	210.9	−22.7	96	451
17588	.446	24.7	206.2	+30.6	48	308
17584	.586	160.3	205.9	−26.6	85	582
17587	.419	145.0	204.4	−13.2	1	5
17591	.955	117.3	151.2	−23.4	8	38
17592	.965	62.7	142.4	+28.1	0	26

Group 17585. Aug. 19 - 28. A few small spots, not seen on August 25 and 26.
Group 17586. Aug. 19 - 24. One or two small spots, seen only on August 19, 20 and 24.
Group 17587. Aug. 19 - 23. A tiny spot.
Group 17588. Aug. 20 - 31. A stream of normal type, developing from a tiny spot first seen on August 20.
Group 17589. Aug. 21 - 22. A pair of tiny spots on August 21; a single spot on August 22.
Group 17590. Aug. 22 - 27. A short stream, of which only a follower remains at the west limb.
Group 17591. Aug.22-Sept.3. One or two small spots with a brief maximum on August 31.
Group 17592. Aug. 23 - 25. A small spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Aug.24.309		(+19.0)	(205.5)	(+ 7.0)		
17578	.967	242.6	275.5	−24.1	91	660
17579	.876	244.0	261.5	−18.7	172	884
a	.895	245.4	264.3	−18.3	124	536
b	.840	242.0	256.9	−18.8	48	348
17590	.797	300.0	256.7	+27.9	64	381
17573	.780	293.5	256.1	+22.6	100	487
17593	.762	221.8	240.8	−28.9	0	7
17576	.667	227.6	237.2	−20.7	56	350
17585	.488	305.0	231.0	+22.5	7	37
17577	.675	350.8	214.8	+48.5	34	167
17582	.446	193.3	211.7	−18.7	1	6
17581	.507	189.4	210.6	−23.0	106	464
17588	.400	359.0	206.0	+30.5	126	581
17584	.559	180.3	205.7	−26.9	93	474
17586	.399	175.0	203.4	−16.3	3	11
1377c	.817	112.0	154.5	−13.4	2	8
17591	.905	120.8	147.4	−24.0	8	31
17592	.886	62.2	143.3	+27.8	6	21
Aug.25.312		(+19.3)	(192.2)	(+ 7.1)		
17578	.992	242.4	270.2	−26.1	0	42
17579	.956	247.7	261.1	−18.8	97	775
a	.967	248.9	263.8	−18.2	69	585
b	.930	245.7	256.0	−19.4	28	190
17573	.895	291.5	256.2	+22.4	115	549
17590	.882	297.6	253.9	+27.6	47	299
17593	.869	231.0	242.4	−28.7	2	14
1377d	.775	298.7	241.4	+26.5	2	11
17576	.796	237.2	237.7	−20.6	47	224
17577	.717	340.4	213.6	+48.9	28	120
17581	.573	210.2	210.4	−22.9	103	465
17584	.600	200.9	206.1	−27.1	52	421
17588	.447	334.1	205.2	+30.5	187	901
17591	.779	127.7	150.3	−23.1	4	14
17592	.806	58.3	140.4	+29.5	0	8
1377e	.949	109.8	124.0	−16.3	0	11
Aug.26.307		(+19.6)	(179.1)	(+ 7.1)		
17579	.983	248.8	255.1	−19.3	19	104
b	.983	248.8	255.1	−19.3	19	104
17573	.964	291.6	255.1	+22.6	76	575
17590	.944	295.6	250.7	+26.4	35	178
17593	.945	235.6	242.2	−29.2	23	161
17576	.901	242.9	237.9	−20.7	36	249

continued

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Aug.26.307 *continued*						
17577	.768	332.4	211.7	+48.8	18	117
17581	.681	224.4	210.2	−23.0	96	470
17588	.549	317.7	204.3	+30.3	173	1135
17584	.669	214.8	204.3	−26.8	34	335
17591	.665	137.9	150.2	−23.3	6	17
17594	.605	127.9	149.5	−15.5	3	26
17595	.569	54.5	148.4	+25.4	9	48
17596	.991	120.4	102.2	−28.7	0	32
17597	.994	73.0	93.7	+17.6	22	171
Aug.27.570		(+19.9)	(162.4)	(+ 7.1)		
17590	.995	295.9	249.2	+26.4	24	110
17576	.991	248.3	241.2	−20.2	25	148
17593	.984	238.3	236.0	−29.3	19	137
17585	.918	295.9	229.5	+26.6	13	38
17581	.825	235.7	210.0	−23.0	96	458
17577	.845	324.5	209.9	+48.4	15	85
17584	.808	228.6	205.2	−27.1	30	251
17588	.712	306.3	203.9	+30.3	179	1193
17598	.577	209.9	180.6	−23.2	12	36
17594	.420	154.3	151.6	−15.2	9	20
17591	.547	156.5	148.7	−23.1	3	10
17595	.387	34.9	148.3	+25.3	20	82
17599	.815	123.5	115.5	−21.9	4	9
17596	.923	124.3	103.0	−27.8	81	401
17600	.878	72.4	100.5	+18.8	5	19
17602	.963	112.9	92.2	−19.7	22	99
17601	.974	120.3	91.5	−27.3	0	11
17597	.941	72.8	91.2	+18.5	73	673
17603	.974	77.5	84.4	+13.8	39	336
17604	.977	57.9	82.8	+32.8	0	12
Aug.28.433		(+20.2)	(151.0)	(+ 7.1)		
17585	.968	294.6	228.0	+25.5	28	145
17581	.907	240.6	209.8	−22.8	97	435
17577	.896	321.0	208.5	+48.2	16	97
17584	.887	234.2	204.8	−27.1	17	86
17588	.820	301.9	204.3	+30.0	186	1220
17598	.680	223.6	181.6	−23.3	5	17
17594	.378	183.1	152.2	−15.0	3	19
17591	.505	175.1	148.3	−23.0	0	6
17595	.321	8.0	148.2	+25.5	19	92
1377f	.779	146.7	119.8	−34.5	0	4
17599	.713	130.4	115.4	−21.7	1	6

continued

Group 17593. Aug. 24 - 27. One or two small spots.
Group 17594. Aug. 26 - 29. One or two small spots.
Group 17595. Aug.26-Sept.4. One or two small changing spots.
Group 17596. Aug.26-Sept.6. A pair of spots, soon developing into a stream, with a brief maximum on August 30.
Group 17597. Aug.26-Sept.7. A composite structure, developing into a stream of normal type, of which the leader is the most stable component and alone remains at the west limb.
Group 17598. Aug. 27 - 29. One or two small spots.
Group 17599. Aug. 27 - 29. A tiny spot.
Group 17600. Aug.27-Sept.1. One or two small spots.
Group 17601. Aug.27-Sept.2. A small spot.
Group 17602. Aug. 27 - 31. A pair of small spots, of which only one remains on August 31.
Group 17603. Aug.27-Sept.8. A regular spot, with one or two companions until August 31. On September 7 and 8 another companion appears.
Group 17604. Aug.27-Sept.9. A regular spot, leading a group of small changing spots, which die out by September 8.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Aug.28.433	*continued*					
17596	.851	129.0	102.8	−27.7	60	402
17600	.752	71.2	102.4	+18.8	7	19
1377g	.867	110.0	94.3	−13.4	0	5
17597	.853	72.6	92.1	+18.5	97	872
17602	.903	116.2	91.7	−19.9	27	136
17601	.921	123.6	91.7	−27.1	0	6
17603	.912	77.5	84.5	+14.3	50	289
17604	.928	57.7	82.7	+32.5	12	52
Aug.29.304		(+20.4)	(139.5)	(+ 7.2)		
17581	.965	243.7	209.3	−23.0	90	438
17577	.937	318.8	206.3	+47.9	13	45
17588	.900	300.1	203.5	+30.1	189	1387
17584	.944	238.2	203.3	−26.8	14	82
17595	.794	234.3	183.6	−22.4	4	11
17594	.437	211.5	153.1	−14.8	3	18
17591	.509	197.6	149.0	−21.8	12	46
17595	.347	338.0	147.8	+25.9	12	55
17605	.243	73.7	125.7	+11.0	1	4
17606	.432	54.4	117.5	+21.2	0	3
17599	.610	142.0	115.7	−22.0	0	3
17600	.615	68.4	102.5	+18.8	11	37
17596	.766	135.6	102.5	−27.4	95	531
17597	.730	71.3	92.8	+18.5	100	918
a	.696	70.8	95.8	+18.4	34	359
17602	.817	120.9	91.4	−20.0	12	67
17601	.870	127.5	88.6	−27.5	5	23
17604	.840	56.0	84.3	+32.2	18	98
17603	.818	77.4	84.2	+14.4	42	241
Aug.30.427		(+20.7)	(124.7)	(+ 7.2)		
17577	.980	317.4	205.3	+47.8	12	34
17588	.976	299.6	204.0	+30.3	118	1064
17591	.618	218.5	149.2	−22.3	37	157
17595	.483	313.7	147.5	+26.1	8	24
17605	.062	357.1	124.9	+10.7	1	4
17606	.264	20.5	119.0	+21.4	3	19
17607	.342	39.1	111.3	+22.3	5	25
17600	.411	57.9	103.2	+19.3	5	25
17596	.655	149.6	102.8	−27.6	108	688
17597	.541	66.9	93.2	+18.4	81	908
a	.499	64.7	96.4	+18.7	42	374
b	.572	67.7	90.9	+18.5	39	534
17602	.670	131.1	92.3	−20.1	6	23
17601	.735	137.9	91.2	−27.0	4	10
17603	.649	76.4	84.3	+14.3	41	208
17604	.726	51.1	82.8	+32.5	52	250
17608	.896	66.4	60.7	+24.3	0	8
Aug.31.324		(+21.0)	(112.8)	(+ 7.2)		
17588	.985	301.0	195.4	+31.7	30	285
17591	.724	229.6	149.2	−22.1	23	163
17595	.605	304.5	146.4	+26.0	0	13
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Aug.31.324	*continued*					
17606	.281	333.0	120.6	+21.5	11	50
17607	.266	7.2	110.7	+22.5	2	14
17600	.259	37.4	103.3	+18.9	5	38
17596	.594	164.7	102.6	−27.7	93	573
17602	.544	145.4	93.7	−19.8	2	13
17597	.373	57.2	93.6	+18.4	97	837
a	.334	52.2	96.7	+18.7	50	406
b	.414	60.8	90.5	+18.3	47	431
17601	.666	145.4	87.9	−26.6	3	23
17603	.486	73.8	84.2	+14.1	27	153
17604	.618	43.4	82.5	+32.9	79	411
Sept.1.325		(+21.2)	(99.6)	(+ 7.2)		
17595	.782	295.9	150.1	+24.6	0	7
17591	.841	237.9	149.6	−22.0	19	81
17606	.419	307.8	120.4	+21.6	9	31
17607	.355	320.4	113.7	+22.8	7	38
17600	.220	335.1	105.2	+18.6	0	5
17596	.575	184.0	102.2	−27.6	76	433
17597	.214	24.2	94.3	+18.4	108	766
a	.203	13.0	96.9	+18.5	64	493
b	.255	40.0	89.7	+18.3	39	240
17601	.579	163.3	88.9	−26.5	5	32
17603	.292	64.4	83.9	+14.2	27	144
17604	.505	30.4	82.0	+32.5	92	542
Sept.2.370		(+21.5)	(85.8)	(+ 7.2)		
17591	.938	243.6	150.3	−21.7	13	51
17595	.875	293.7	147.0	+24.1	9	52
17606	.610	294.9	121.9	+20.7	3	13
17607	.510	303.6	113.1	+22.8	22	137
17596	.628	203.7	102.4	−28.0	55	297
17597	.241	324.3	94.3	+18.4	99	758
a	.270	316.1	97.1	+18.2	55	536
b	.201	342.3	89.5	+18.2	33	161
17601	.561	185.3	89.1	−26.6	0	3
17603	.130	14.8	83.8	+14.4	34	136
17604	.427	5.9	82.8	+32.2	97	502
17609	.630	70.1	47.4	+18.1	1	12
17610	.970	106.1	12.4	−13.7	4	22
Sept.3.346		(+21.7)	(72.9)	(+ 7.2)		
17591	.987	246.7	149.7	−21.5	0	27
17595	.955	293.3	146.9	+24.3	37	155
17606	.760	290.9	122.0	+20.5	2	8
17607	.676	296.5	113.8	+23.0	56	300
17596	.714	217.7	102.5	−28.1	32	200
17597	.408	299.7	94.7	+18.4	85	490
a	.444	297.0	97.4	+18.1	60	351
b	.337	305.5	89.7	+18.1	22	116
17603	.223	305.2	83.7	+14.4	26	130
17604	.444	344.1	81.1	+32.3	86	491
17611	.507	84.2	42.3	+ 9.1	1	9
17610	.881	109.5	14.5	−13.4	10	43

Group 17605. Aug. 29 - 30. A tiny spot.
Group 17606. Aug.29 - Sept.3. One or two small spots.
Group 17607. Aug.30 - Sept.7. A small stream, of fairly rapid growth.
Group 17608. Aug.30 - Sept.9. Intermittent. A few small spots.
Group 17609. Sept. 2 - 6. A tiny spot, seen only on September 2 and 6.
Group 17610. Sept. 2 - 10. A few small spots.
Group 17611. Sept. 3 - 4. A pair of tiny spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Sept.4.332		(+22.0)	(59.9)	(+ 7.2)		
17595	.988	293.5	143.2	+24.3	6	44
17607	.800	292.6	112.7	+22.3	152	704
17596	.811	227.0	102.1	−28.2	23	145
17597	.599	290.8	95.8	+18.1	68	429
a	.620	290.1	97.5	+18.1	55	355
b	.514	293.2	89.5	+17.9	13	74
17603	.415	289.6	83.6	+14.6	30	133
17604	.529	324.5	81.1	+32.2	83	404
1377h	.392	341.7	67.9	+28.9	0	8
17608	.331	1.8	59.2	+26.4	3	21
17611	.303	82.7	42.3	+ 9.1	5	28
1377i	.673	68.5	18.4	+19.7	3	17
17610	.762	114.2	14.5	−13.1	8	40
Sept.5.320		(+22.2)	(46.8)	(+ 7.2)		
17607	.904	291.2	112.1	+22.2	125	810
17596	.903	233.9	102.5	−28.2	21	102
17597	.762	287.6	96.4	+18.1	61	306
a	.773	287.5	98.4	+18.1	55	285
b	.683	289.0	89.4	+18.2	6	21
17603	.601	285.2	83.5	+14.8	25	117
1377j	.753	221.7	81.3	−28.2	2	10
17604	.649	312.6	80.9	+32.0	57	378
17610	.626	121.8	13.8	−13.2	19	90
17612	.952	109.2	338.0	−15.7	49	286
17613	.992	115.1	328.2	−23.6	68	755
Sept.6.329		(+22.4)	(33.5)	(+ 7.2)		
17607	.968	291.4	110.5	+22.5	86	537
17596	.968	237.7	102.3	−28.8	33	186
17597	.893	286.3	97.4	+17.8	48	264
a	.895	286.3	97.7	+17.8	48	258
b	.831	286.3	90.0	+17.5	0	6
17603	.763	283.6	83.4	+15.0	21	129
17604	.778	305.8	81.4	+31.9	51	276
17608	.525	309.2	60.2	+25.8	18	70
17609	.319	302.8	49.7	+16.9	0	5
17614	.644	184.0	36.5	−32.6	1	6
17610	.466	138.0	14.9	−13.4	18	82
1377k	.770	124.2	350.9	−20.4	2	14
17612	.853	113.2	339.2	−15.5	66	413
17615	.812	80.0	338.8	+12.4	0	6
17613	.961	117.4	324.9	−23.8	249	1981
1956		°	°	°		
Sept.7.355		(+22.6)	(20.0)	(+ 7.2)		
17607	.991	291.3	104.2	+22.0	18	65
17597	.971	286.4	97.5	+17.6	47	168
a	.971	286.4	97.5	+17.6	47	168
17603	.901	282.6	85.0	+14.5	31	153
17604	.870	303.6	79.1	+32.6	33	298
17616	.743	284.6	68.1	+15.6	5	25
17608	.672	297.9	60.3	+23.8	24	92
1377l	.616	223.4	46.7	−20.1	2	9
17614	.665	197.4	33.5	−32.2	3	6
17610	.367	168.9	15.8	−13.8	15	49
17617	.475	48.6	357.0	+24.8	1	24
17612	.724	119.7	339.4	−15.5	52	352
17615	.661	78.8	338.5	+12.8	1	9
17613	.898	121.4	323.1	−24.0	367	2306
Sept.8.305		(+22.8)	(7.4)	(+ 7.2)		
17603	.969	282.6	84.1	+13.9	34	178
17604	.946	301.8	79.2	+32.3	55	307
17616	.863	284.0	67.6	+15.7	5	28
17608	.801	293.0	60.2	+22.6	12	34
17610	.377	200.6	15.2	−13.5	13	78
1377m	.406	156.4	357.8	−14.7	1	8
17617	.308	32.6	357.1	+22.0	1	11
17618	.479	46.6	344.8	+25.8	1	4
17612	.586	129.4	339.5	−15.4	60	333
17613	.810	126.5	322.2	−23.8	378	2283
Sept.9.591		(+23.1)	(350.4)	(+ 7.2)		
17604	.994	301.5	77.2	+31.9	22	101
17608	.957	289.1	64.7	+20.3	3	15
17610	.525	229.3	14.4	−13.4	8	73
17618	.326	11.7	346.2	+25.7	1	7
17612	.431	151.6	338.2	−15.2	68	472
17613	.661	139.9	322.7	−24.0	341	2259
17619	.989	115.4	273.2	−23.7	30	269
Sept.10.297		(+23.2)	(341.1)	(+ 7.2)		
17610	.633	238.4	14.6	−13.4	6	36
17618	.333	344.8	346.6	+25.8	1	5
17612	.390	174.0	338.7	−15.5	52	327
1378n	.440	28.1	327.4	+29.7	0	1
17613	.585	150.8	323.0	−23.8	251	2219
17619	.959	118.0	273.2	−24.2	19	258
17620	.973	114.4	268.9	−21.7	0	15
17621	.991	109.6	261.9	−18.2	32	278
17622	.995	66.9	254.5	+23.6	0	43

Group 17612. Sept. 5 - 15. A long stream, of which the largest component is the follower. This, however, breaks up and rapidly dies out after September 11.

Group 17613. Sept. 5 - 17. A large complex stream. The leading and centre parts are joined for nearly the whole transit. The rear portion, although complex, undergoes little change until September 14, after which it begins to die out.

Group 17614. Sept. 6 - 7. A tiny spot.

Group 17615. Sept. 6 - 7. A tiny spot.

Group 17616. Sept. 7 - 8. A few tiny spots.

Group 17617. Sept. 7 - 8. A pair of tiny spots on September 7; a single spot on September 8.

Group 17618. Sept. 8 - 10. A tiny spot.

Group 17619. Sept. 9 - 21. A small composite spot, with occasional companions.

Group 17620. Sept. 10 - 16. A stream of changing spots.

Group 17621. Sept. 10 - 22. A compact bi-polar group, slowly dying out as it passes round the limb.

Group 17622. Sept. 10 - 22. A pair of spots, of which only one remains after September 14. On September 21 other small spots appear.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Sept.11.297		(+23.4)	(327.9)	(+ 7.2)		
17612	.436	206.8	339.6	−15.8	53	291
17613	.527	172.0	323.3	−24.1	346	2106
17623	.599	133.9	301.0	−18.1	0	3
17619	.888	122.1	272.5	−24.1	39	239
17620	.917	115.4	266.3	−19.9	20	114
17621	.955	113.0	259.4	−19.4	90	631
17624	.963	109.4	256.9	−16.4	42	252
17622	.957	68.4	253.5	+22.7	32	243
Sept.12.355		(+23.6)	(313.9)	(+ 7.2)		
17625	.771	226.4	352.4	−26.5	4	9
17626	.619	295.8	350.5	+21.4	12	58
17612	.584	230.4	341.6	−15.4	37	177
17613	.541	196.0	323.3	−24.1	278	1890
17623	.480	153.4	300.9	−18.3	0	3
17627	.428	55.6	291.8	+20.6	13	47
17619	.786	128.6	271.8	−24.0	38	199
17628	.750	66.2	266.1	+22.5	2	14
17620	.840	120.8	263.5	−21.0	30	219
17621	.870	117.5	259.1	−19.6	82	480
17624	.896	113.0	254.6	−16.9	141	691
a	.861	113.3	258.8	−15.8	35	160
b	.923	112.9	250.8	−17.9	46	192
17622	.874	68.1	252.7	+22.6	33	196
17629	.963	116.7	244.6	−23.3	22	121
17630	.951	63.0	240.8	+27.8	3	22
17631	.995	121.8	235.1	−30.5	34	139
Sept.13.344		(+23.8)	(300.9)	(+ 7.2)		
17625	.868	235.2	352.8	−25.3	2	9
17626	.761	291.9	350.0	+21.3	25	140
17612	.746	241.8	343.7	−15.4	26	132
1378b	.540	228.5	325.5	−14.4	0	5
17613	.632	214.9	324.2	−24.5	238	1695
17632	.617	349.1	310.2	+44.3	19	65
17627	.276	32.6	291.8	+20.5	9	35
17619	.680	138.2	271.2	−24.1	34	169
1378c	.758	142.5	268.5	−30.9	2	8
17628	.587	63.8	266.6	+21.3	1	7
17620	.730	128.2	263.1	−21.1	33	192
17621	.758	123.6	259.0	−19.4	74	397
17624	.787	118.0	254.6	−16.7	120	655
a	.732	119.2	259.5	−15.5	20	126
b	.829	117.3	250.4	−17.8	53	265

continued

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Sept.13.344 *continued*						
1378d	.752	58.4	254.5	+28.2	2	4
17622	.757	66.3	252.5	+22.5	26	176
17629	.862	121.3	248.3	−22.3	9	31
17631	.961	124.6	234.5	−30.4	41	168
17633	.956	65.6	226.7	+25.3	18	54
17634	.991	103.8	220.7	−12.5	22	195
Sept.14.511		(+24.0)	(285.5)	(+ 7.2)		
17626	.892	290.6	349.1	+21.6	43	302
17612	.912	249.8	347.7	−15.1	23	135
17613	.755	228.7	323.8	−24.2	193	1465
17635	.596	285.2	321.8	+14.8	3	11
17632	.690	333.4	311.1	+44.5	25	123
17627	.272	348.0	289.0	+22.6	11	61
17628	.386	46.0	268.1	+22.4	4	24
17619	.566	155.3	270.6	−23.8	27	165
17620	.573	143.2	264.1	−20.5	15	141
17621	.616	135.9	258.5	−19.8	56	482
17624	.624	127.7	254.7	−16.2	99	635
a	.560	130.8	259.6	−15.0	31	127
b	.674	125.8	250.7	−17.3	31	303
17622	.575	59.9	253.0	+22.8	28	134
17629	.729	129.8	248.5	−22.1	1	10
1378e	.832	128.8	239.2	−26.5	0	2
17631	.886	129.6	233.6	−30.0	29	179
17633	.846	64.4	228.1	+25.4	21	143
17634	.933	107.8	219.6	−13.7	30	209
17636	.982	59.6	204.3	+31.1	64	301
Sept.15.533		(+24.2)	(272.0)	(+ 7.2)		
17626	.969	290.6	349.2	+21.7	47	282
17612	.977	252.4	346.8	−15.4	33	169
17613	.864	236.2	323.8	−24.3	168	1015
17635	.769	283.3	322.5	+14.8	11	49
17632	.768	324.8	310.3	+44.6	20	102
17637	.773	221.4	307.9	−29.6	8	22
17627	.376	313.7	289.0	+21.9	2	23
17619	.516	176.6	270.1	−23.6	34	128
17620	.488	164.0	263.8	−20.7	13	68
17628	.286	27.6	263.8	+21.7	1	7
17621	.500	153.9	258.6	−19.6	60	420
17624	.488	144.0	254.7	−16.3	92	492
a	.427	150.4	259.5	−14.7	35	139
b	.538	139.2	250.5	−17.3	42	242

continued

Group 17623. Sept. 11 - 12. A tiny spot.
Group 17624. Sept. 11 - 22. A stream of normal type, of which only the leader remains by September 21.
Group 17625. Sept. 12 - 13. A pair of tiny spots on September 12; a single spot on September 13.
Group 17626. Sept. 12 - 15. A group of small spots.
Group 17627. Sept. 12 - 15. Two or three small spots.
Group 17628. Sept. 12 - 21. A small spot, not seen on September 18 and 19.
Group 17629. Sept. 12 - 23. A few small spots, not seen on September 19, 20 and 21.
Group 17630. Sept. 12 - 16. One or two small spots, not seen on September 13 and 14.
Group 17631. Sept. 12 - 23. A slowly-diminishing spot, with an occasional companion.
Group 17632. Sept. 13 - 18. A pair of small spots.
Group 17633. Sept. 13 - 24. A regular spot, followed by a few small companions.
Group 17634. Sept. 13 - 24. A stream of small unstable spots.
Group 17635. Sept. 14 - 17. A few variable spots.
Group 17636. Sept. 14 - 23. A small regular spot, with occasional companions.
Group 17637. Sept. 15 - 17. A pair of small spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Sept.15.533	*continued*					
17622	.410	45.0	253.6	+23.6	16	50
17629	.609	142.4	248.4	−22.1	3	23
17630	.567	49.6	242.9	+27.8	6	22
17631	.800	136.4	232.7	−29.8	30	158
17633	.714	60.6	228.5	+25.8	37	153
17634	.832	112.0	219.6	−13.8	53	221
17636	.932	59.8	202.7	+30.7	34	221
17638	.969	116.0	201.2	−22.9	40	235
17639	.960	65.6	196.8	+25.4	0	25
Sept.16.398		(+24.4)	(260.6)	(+ 7.2)		
17635	.897	283.4	325.1	+15.2	6	20
17613	.924	240.0	321.7	−24.2	107	908
17632	.843	319.8	310.5	+44.8	11	64
17637	.847	228.1	306.9	−29.5	5	30
17619	.534	196.6	270.1	−23.6	22	135
17620	.488	189.4	265.5	−21.5	8	43
17628	.253	349.2	263.5	+21.5	3	17
17621	.453	175.0	258.2	−19.5	54	367
17624	.405	166.0	254.8	−15.8	81	483
a	.374	177.4	259.6	−14.7	29	168
b	.448	158.0	250.5	−17.3	40	233
17622	.308	22.1	253.4	+23.6	10	36
17629	.517	163.7	251.6	−22.5	6	37
17630	.433	37.4	243.5	+26.9	1	9
17631	.718	144.8	232.3	−29.5	31	144
17633	.582	54.4	229.0	+25.9	32	184
17634	.734	116.9	218.3	−14.1	45	308
17636	.864	58.6	201.8	+30.7	29	179
17638	.911	118.9	201.0	−22.6	52	320
17639	.899	65.6	196.2	+25.0	5	31
17640	.976	65.0	181.4	+25.9	25	158
Sept.17.395		(+24.5)	(247.4)	(+ 7.2)		
17635	.978	284.6	326.5	+15.7	21	148
17613	.980	243.1	321.0	−24.5	48	364
17632	.908	316.9	308.9	+45.2	5	30
17637	.929	233.9	307.0	−29.7	2	17
17641	.706	227.1	281.4	−22.7	1	6
17619	.602	213.3	268.4	−23.4	26	126
17628	.371	314.7	263.8	+22.0	5	31
17621	.484	202.3	258.6	−19.4	44	267
17642	.184	304.8	256.3	+13.1	0	2
17624	.415	197.5	254.8	−16.1	72	361
a	.426	208.3	259.4	−14.9	29	136
b	.417	187.2	250.5	−17.2	34	163
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Sept.17.395	*continued*					
17622	.297	343.7	252.6	+23.7	8	26
17629	.504	188.1	251.8	−22.6	6	48
17631	.642	158.7	231.9	−29.7	22	126
17633	.433	41.2	229.0	+25.8	27	133
17634	.587	128.1	219.0	−14.8	44	210
17636	.761	55.3	200.9	+30.7	29	154
17638	.820	124.4	200.4	−22.7	47	258
17639	.820	66.5	192.7	+23.3	38	227
17640	.929	64.0	178.4	+26.7	77	414
Sept.18.409		(+24.7)	(234.0)	(+ 7.1)		
17632	.968	315.1	310.4	+45.4	4	27
17641	.829	235.2	281.7	−23.5	0	6
17643	.652	239.7	269.2	−13.4	3	12
17619	.712	227.0	268.4	−23.1	16	89
17621	.577	222.5	258.1	−18.1	40	214
17642	.398	284.3	257.1	+12.1	15	66
17624	.522	223.3	255.7	−15.7	42	264
a	.554	228.3	259.3	−15.1	23	142
17622	.406	315.9	251.9	+23.6	5	15
17629	.552	207.7	250.0	−22.3	2	24
17631	.599	176.0	231.3	−29.5	14	66
17633	.332	16.5	228.0	+25.5	19	126
17634	.431	147.3	220.2	−14.2	19	110
17636	.634	48.7	200.5	+30.7	26	139
17638	.701	132.5	200.2	−22.3	33	227
17639	.674	63.5	193.3	+22.9	42	302
17640	.839	62.1	177.7	+27.2	82	505
Sept.19.348		(+24.8)	(221.6)	(+ 7.1)		
17641	.896	238.3	278.2	−24.3	0	8
17644	.810	237.6	268.5	−20.9	3	15
17643	.780	245.2	268.4	−14.2	3	9
17619	.818	234.7	268.1	−23.4	17	79
17621	.702	233.9	258.2	−18.7	36	179
17642	.574	280.9	256.6	+12.0	32	132
17624	.657	236.1	255.9	−15.6	43	255
a	.690	238.7	259.2	−15.4	28	152
17622	.547	303.6	251.3	+23.8	5	19
17645	.521	229.6	245.5	−13.2	2	13
17631	.622	192.4	230.5	−30.3	12	49
17633	.327	347.8	226.0	+25.7	25	158
17634	.370	185.3	223.6	−14.4	17	69
17636	.511	36.2	201.1	+30.9	19	114
17638	.593	144.8	200.0	−22.3	39	221
17639	.538	56.7	192.4	+23.3	56	291
17640	.735	59.2	176.6	+27.1	71	421
17646	.824	109.0	169.2	−11.3	13	54

Group 17638. Sept. 15 - 27. A regular spot, with occasional companions.
Group 17639. Sept. 15 - 27. A stream of small spots, of which only the leader survives to the west limb.
Group 17640. Sept. 16 - 27. A regular spot, followed by some distant companions until September 23.
Group 17641. Sept. 17 - 20. A tiny spot.
Group 17642. Sept. 17 - 22. A few small spots.
Group 17643. Sept. 18 - 19. A tiny spot.
Group 17644. Sept. 19 - 20. A small spot.
Group 17645. Sept. 19 - 22. A pair of spots on September 19 and 20; a single spot on the other days.
Group 17646. Sept. 19 - 27. Intermittent. A pair of spots on September 19 and 20; a single spot on the other days.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Sept.20.307		(+25.0)	(208.9)	(+ 7.1)		
17641	.963	241.3	277.6	−25.1	0	7
17644	.920	243.7	270.6	−20.8	14	28
17628	.855	290.8	267.8	+21.5	4	13
17619	.903	239.6	266.8	−23.5	27	110
17621	.823	240.5	258.1	−19.3	24	119
17624	.796	243.5	256.6	−16.1	34	193
a	.815	244.8	258.7	−15.7	28	158
17642	.731	279.3	256.2	+11.7	32	129
17622	.694	297.0	251.2	+23.6	6	19
17645	.668	241.1	245.7	−13.1	11	42
17631	.673	207.4	229.8	−29.9	9	19
17633	.423	319.3	226.6	+25.4	27	144
17634	.438	213.6	223.3	−14.5	20	78
17636	.429	16.0	201.0	+31.3	20	118
17638	.517	162.1	199.0	−22.4	31	231
17639	.382	42.8	192.6	+23.0	44	254
17647	.490	76.3	179.8	+12.9	29	94
17640	.601	53.2	176.3	+27.1	59	326
1378f	.645	67.3	169.8	+19.9	1	6
17646	.686	114.6	169.6	−11.1	13	26
17648	.987	68.1	126.3	+22.6	27	136
Sept.21.320		(+25.1)	(195.6)	(+ 7.1)		
17628	.947	289.9	267.9	+21.0	10	47
17619	.972	243.7	267.1	−23.4	8	64
17624	.923	249.3	259.3	−16.0	26	124
a	.923	249.3	259.3	−16.0	26	124
17621	.924	245.7	258.5	−19.2	15	42
17642	.861	278.8	255.5	+11.1	30	104
17622	.853	290.6	254.3	+21.2	2	17
17645	.829	249.5	248.1	−12.5	2	12
17631	.763	220.3	230.1	−29.7	5	13
17633	.590	304.3	228.1	+25.4	14	88
17634	.568	230.3	222.4	−14.9	35	143
17636	.415	350.7	200.1	+31.2	22	100
17638	.496	185.9	198.7	−22.4	38	212
17639	.290	12.8	191.6	+23.4	33	183
17647	.245	67.5	182.3	+12.3	33	136
17640	.459	41.3	175.8	+26.8	44	214
17646	.508	126.4	171.1	−11.0	8	15
17648	.933	68.6	125.8	+22.5	23	132
Sept.22.310		(+25.2)	(182.5)	(+ 7.0)		
17624	.983	252.4	259.1	−15.8	29	154
a	.983	252.4	259.1	−15.8	29	154
17621	.971	248.1	254.9	−19.2	0	14
17622	.962	289.8	257.9	+20.9	7	25
17642	.956	278.9	256.1	+10.5	6	43
17645	.931	254.3	248.6	−11.8	0	9

continued

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Sept.22.310	*continued*					
17629	.946	241.9	248.0	−23.7	9	36
17631	.849	228.4	229.2	−29.5	4	8
17633	.727	298.6	227.2	+25.3	21	110
17634	.717	241.1	222.9	−15.0	26	137
1378g	.505	301.6	209.9	+21.5	0	2
17636	.472	328.7	199.0	+30.5	15	69
17638	.549	207.4	198.3	−22.3	35	170
17639	.321	329.7	192.6	+22.9	33	150
17647	.096	350.3	183.4	+12.4	38	169
17640	.348	16.9	176.0	+26.3	32	164
17646	.367	149.2	171.5	−11.5	2	10
17648	.835	67.7	126.0	+22.4	24	126
17649	.922	111.7	119.2	−16.9	3	5
Sept.23.334		(+25.3)	(169.0)	(+ 7.0)		
17629	.985	247.2	245.2	−20.9	0	31
1378h	.925	248.1	232.8	−17.2	9	29
17631	.929	234.1	228.8	−29.6	3	9
17633	.853	295.9	227.1	+25.7	21	124
17634	.856	247.3	223.8	−15.3	11	51
17636	.588	314.1	198.2	+30.3	2	20
17638	.651	223.0	197.5	−22.2	38	176
1378i	.617	321.2	197.0	+34.9	0	3
17639	.470	306.2	193.1	+22.5	19	86
17647	.275	290.4	184.2	+12.2	35	192
1378j	.514	340.3	181.3	+35.6	0	13
17640	.350	344.3	175.1	+26.6	23	181
17648	.706	65.2	125.3	+22.3	22	111
17649	.823	116.5	118.8	−17.1	12	51
17650	.961	107.4	97.8	−14.5	3	49
17651	.987	120.0	93.8	−28.0	61	419
Sept.24.316		(+25.5)	(156.0)	(+ 7.0)		
17633	.935	295.1	226.0	+25.9	15	115
17634	.949	251.3	224.5	−15.2	6	28
17638	.765	231.7	196.6	−23.0	35	189
17639	.656	296.1	195.3	+22.2	12	50
17647	.496	282.8	185.6	+12.4	39	193
17640	.446	318.3	175.2	+26.0	20	113
17648	.545	59.1	125.8	+22.3	32	148
17649	.685	124.8	120.0	−17.3	8	39
17650	.888	110.6	97.0	−14.7	28	118
17651	.937	122.7	93.6	−27.3	90	575
Sept.25.308		(+25.6)	(142.9)	(+ 6.9)		
17638	.868	239.0	196.4	−22.5	32	187
17639	.797	292.3	195.3	+21.8	7	38
17647	.682	280.6	186.0	+12.2	38	189
17640	.588	305.8	174.8	+25.9	19	110

continued

Group 17647. Sept. 20 - 27. A regular spot, followed by one or two companions until September 23.
Group 17648. Sept.20-Oct. 3. A regular spot.
Group 17649. Sept.22-Oct. 1. One or two small spots, not seen from September 26 to September 28.
Group 17650. Sept.23-Oct. 3. A stream of small changing spots.
Group 17651. Sept.23-Oct. 5. A stream, in which both leader and central portion become regular spots. The rear part consists of small, unstable spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Sept.25.308	*continued*					
17648	.387	46.7	125.3	+21.9	35	126
17649	.525	141.9	123.1	−17.8	5	14
17650	.760	116.2	98.2	−14.7	19	139
17651	.869	127.6	92.0	−27.7	112	678
17652	.959	121.6	75.9	−27.6	3	16
17653	.971	70.4	65.5	+20.6	80	400
17654	.970	57.3	65.3	+33.4	8	44
Sept.26.401		(+25.7)	(128.5)	(+ 6.9)		
17638	.953	244.4	196.1	−21.8	29	183
17639	.916	290.9	195.5	+21.9	5	20
17647	.844	280.1	186.5	+12.2	33	149
17640	.741	299.2	174.4	+26.0	13	78
17646	.730	242.5	170.3	−14.6	7	33
17648	.267	11.2	125.3	+22.0	21	126
17650	.588	126.5	99.4	−14.4	35	142
17651	.765	135.7	91.5	−27.6	137	814
17652	.922	122.1	68.4	−26.0	11	47
17653	.886	70.7	65.7	+20.2	77	479
17654	.908	56.5	64.0	+33.2	11	38
Sept.27.346		(+25.8)	(116.0)	(+ 6.8)		
17638	.992	247.0	195.1	−21.7	15	172
17639	.976	290.6	194.8	+21.5	4	20
17647	.937	280.6	186.2	+12.3	31	158
17640	.850	296.2	173.7	+25.8	4	29
17646	.870	248.0	172.6	−15.3	4	13
17648	.308	330.0	125.5	+22.1	26	115
17650	.453	142.0	99.3	−14.3	23	91
17651	.675	145.8	90.7	−27.6	132	793
1378k	.507	56.4	89.0	+22.3	0	5
17652	.836	127.7	68.7	−26.2	5	28
17653	.774	69.2	65.7	+20.3	62	416
17654	.826	54.0	63.2	+33.2	11	32
17655	.977	59.2	36.5	+31.5	21	87
Sept.28.544		(+25.9)	(100.2)	(+ 6.8)		
17648	.480	304.1	125.4	+21.7	19	111
17656	.673	340.2	119.1	+45.6	4	18
17657	.257	326.9	108.7	+19.1	0	5
17650	.367	176.4	98.8	−14.6	20	112
17651	.591	164.9	90.2	−27.9	137	731
1378l	.498	149.6	84.8	−18.8	2	13
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Sept.28.544	*continued*					
17653	.594	65.1	65.4	+20.0	61	394
17654	.696	47.7	62.3	+33.3	5	25
17655	.901	58.1	36.5	+31.6	10	62
17658	.977	52.1	20.9	+38.4	0	21
Sept.29.372		(+25.9)	(89.3)	(+ 6.8)		
17648	.614	297.3	125.2	+21.9	17	107
17649	.667	234.5	123.8	−17.2	1	6
17656	.717	330.9	118.6	+44.7	3	9
17657	.407	299.5	111.0	+17.8	1	10
17650	.398	208.0	100.3	−13.8	9	57
17651	.567	179.8	89.2	−27.6	127	736
17653	.454	57.8	65.2	+20.2	46	346
17654	.601	40.0	61.8	+33.4	2	14
17655	.826	55.7	36.0	+31.9	8	43
17658	.943	51.5	19.1	+38.5	3	19
Sept.30.317		(+26.0)	(76.8)	(+ 6.7)		
17648	.755	293.2	125.0	+21.8	13	93
17649	.784	241.0	122.6	−17.6	6	28
17656	.789	325.0	116.8	+45.4	3	14
17657	.580	289.9	111.4	+16.9	36	148
17659	.633	318.8	107.0	+34.2	3	15
17650	.532	230.6	101.7	−13.6	12	49
17651	.594	197.3	88.2	−27.8	147	763
17653	.303	39.4	65.0	+20.0	62	383
17654	.525	26.4	60.5	+34.3	2	18
17655	.719	51.0	35.8	+31.9	3	12
17658	.879	49.4	18.4	+38.5	2	9
17660	.950	121.0	11.4	−26.6	0	24
Oct. 1.302		(+26.1)	(63.8)	(+ 6.7)		
17648	.873	291.2	124.7	+21.7	13	61
17649	.880	245.1	120.7	−18.1	0	4
17656	.858	319.2	115.6	+44.7	47	261
17657	.738	286.9	111.2	+16.9	50	286
17659	.766	309.6	109.0	+33.9	0	7
17650	.671	239.9	100.4	−14.2	21	63
17661	.530	286.5	95.3	+14.4	0	5
17651	.666	211.8	87.2	−28.2	175	1004
17652	.570	184.5	66.7	−27.8	2	16
17653	.240	358.1	64.3	+20.5	55	342
17654	.448	2.2	62.6	+33.2	3	22
					continued	

Group 17652. Sept.25-Oct. 1. Two or three small spots, not seen from September 28 to September 30.
Group 17653. Sept.25-Oct. 7. A regular spot, with occasional companions.
Group 17654. Sept.25-Oct. 2. One or two small spots.
Group 17655. Sept. 27 - 30. A small spot.
Group 17656. Sept.28-Oct. 4. A stream, forming in high latitude.
Group 17657. Sept.28-Oct. 4. A group forming just past the central meridian and growing as it passes out of view.
Group 17658. Sept. 28 - 30. A small spot.
Group 17659. Sept.30-Oct. 1. A tiny spot.
Group 17660. Sept.30-Oct. 5. A pair of spots, of which only one remains on October 5.
Group 17661. Oct. 1 - 4. A small group, forming near the west limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Oct. 1.302	*continued*					
17660	.874	127.6	12.2	−28.1	6	36
17662	.969	114.3	352.4	−21.5	4	40
17663	.957	71.3	349.7	+19.8	37	168
Oct. 2.472		(+26.1)	(48.4)	(+ 6.6)		
17648	.962	290.8	123.7	+21.8	7	56
17656	.933	315.6	114.8	+44.7	99	479
17657	.885	286.6	111.1	+17.8	111	510
17650	.845	249.3	102.6	−13.5	4	23
17661	.728	282.5	95.2	+13.6	23	108
17651	.778	224.7	86.7	−28.4	197	1066
17653	.351	313.7	64.0	+20.4	70	391
17654	.466	337.1	60.7	+31.8	2	11
17664	.171	343.3	51.3	+16.0	15	68
17660	.727	135.9	14.3	−26.0	9	36
17663	.838	71.3	351.4	+19.2	61	272
17662	.893	118.4	350.9	−21.7	24	118
Oct. 3.383		(+26.2)	(36.4)	(+ 6.6)		
17656	.968	314.8	112.0	+44.9	84	509
17657	.960	286.6	111.2	+17.8	82	502
17650	.937	252.8	103.2	−13.5	6	25
17661	.860	282.0	96.1	+13.7	28	96
17651	.872	231.9	87.5	−28.4	189	1004
17653	.505	300.1	64.1	+20.5	46	282
17665	.405	297.3	58.4	+16.8	15	55
17664	.315	298.5	53.0	+15.0	12	61
17660	.614	146.8	14.8	−24.6	20	64
17663	.709	69.1	352.0	+19.3	116	647
a	.712	69.0	351.7	+19.5	65	282
17662	.805	122.4	349.9	−21.0	43	171
17666	.960	106.8	325.3	−14.0	28	125
17667	.989	114.6	318.9	−23.0	30	190
Oct. 4.299		(+26.2)	(24.3)	(+ 6.5)		
17656	.993	315.2	111.5	+45.6	0	37
17657	.987	285.3	106.3	+16.1	6	55
17661	.952	282.5	97.2	+13.8	18	76
17651	.940	236.3	87.0	−28.6	162	988
17653	.654	293.8	63.8	+20.3	50	279
17665	.591	290.1	59.6	+17.0	5	33
17664	.482	293.1	51.7	+16.6	11	72
17660	.532	165.1	15.7	−24.4	10	42
17663	.547	63.9	353.0	+19.4	201	1071
a	.496	60.9	357.0	+19.7	110	422
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Oct. 4.299	*continued*					
17662	.695	128.2	348.9	−20.1	25	172
17668	.811	66.5	330.8	+22.8	3	14
17666	.878	109.7	326.2	−13.8	37	440
17667	.960	116.8	315.4	−23.5	68	348
17669	.979	63.7	304.3	+27.1	10	53
Oct. 5.355		(+26.3)	(10.4)	(+ 6.5)		
17651	.990	239.2	87.0	−29.1	99	762
17653	.804	290.7	63.6	+20.5	35	244
17665	.790	286.3	63.2	+18.4	2	7
17664	.662	288.2	51.3	+16.9	3	31
17660	.512	193.9	18.1	−23.3	5	17
1378m	.612	180.7	10.9	−31.1	3	6
17663	.368	49.7	353.1	+19.9	224	1336
a	.333	42.7	356.5	+20.4	139	733
17662	.569	140.1	347.7	−19.8	25	127
17668	.666	62.7	330.6	+22.8	6	24
17666	.745	115.3	326.7	−13.8	40	312
17667	.875	121.3	316.1	−23.3	61	313
17669	.914	62.7	304.4	+27.5	27	98
Oct. 6.333		(+26.3)	(357.5)	(+ 6.4)		
17653	.909	289.3	63.3	+20.2	32	252
17663	.262	20.3	352.0	+20.5	217	1366
a	.249	5.9	355.9	+20.7	109	710
17662	.476	158.6	346.9	−19.9	30	165
17668	.494	54.3	331.9	+22.5	6	14
17666	.589	124.6	327.7	−13.9	33	286
17667	.771	128.1	316.2	−23.6	44	296
17669	.825	61.0	303.4	+27.3	24	100
17670	.995	68.4	271.1	+22.1	0	216
Oct. 7.434		(+26.3)	(342.9)	(+ 6.3)		
17653	.980	289.5	62.6	+20.3	22	187
17671	.625	235.2	14.9	−15.5	0	6
17663	.276	332.5	350.7	+20.3	152	1176
a	.326	320.9	355.5	+20.7	73	527
17662	.445	178.9	342.4	−20.0	37	181
17668	.337	33.5	331.3	+22.4	1	6
17666	.435	143.5	327.5	−14.3	41	237
17667	.637	140.5	316.7	−23.7	36	205
17669	.689	56.8	302.7	+27.0	25	131
17670	.951	68.9	270.1	+22.0	86	400

Group 17662. Oct. 1 - 13. A few small spots, slowly developing into a long stream. As the group approaches the west limb, however, only two composite spots remain.

Group 17663. Oct. 1 - 13. A stream, of which the leader becomes a regular spot and is the most stable component until October 10. As the group approaches the limb, the whole appears to be coalescing into a composite spot.

Group 17664. Oct. 2 - 5. A small, short-lived group.

Group 17665. Oct. 3 - 5. A few small spots.

Group 17666. Oct. 3 - 14. A composite spot, which soon breaks up to form a stream of which the largest and only stable component is a regular spot.

Group 17667. Oct. 3 - 15. A pair of regular spots, of which only the leader remains by October 9. The group appears to be growing again as it passes round the limb.

Group 17668. Oct. 4 - 14. A small spot until October 8. Nothing is seen on the next day, but on October 10 a long stream of unstable spots appears.

Group 17669. Oct. 4 - 15. A small spot, not seen on October 12 and 13.

Group 17670. Oct. 6 - 19. A stable regular spot, with a small distant companion on October 12 and 13.

Group 17671. Oct. 7 - 8. A tiny spot on October 7; a pair on October 8.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Oct. 8.301		(+26.4)	(331.5)	(+ 6.3)		
17671	.740	239.2	13.2	−17.6	5	21
17663	.392	309.4	350.3	+20.3	168	1339
a	.455	304.0	355.1	+20.5	80	465
17662	.471	200.4	341.5	−19.9	47	327
17668	.309	10.0	328.2	+23.9	1	5
17666	.356	169.0	327.5	−14.1	46	245
17667	.555	154.0	316.1	−23.8	25	149
17669	.568	49.6	302.6	+27.1	21	134
17672	.850	127.1	282.3	−26.7	0	8
17670	.879	68.6	269.9	+21.8	89	457
17673	.992	112.8	252.1	−21.6	34	187
Oct. 9.301		(+26.4)	(318.3)	(+ 6.2)		
17663	.568	298.5	350.5	+20.9	158	1193
a	.608	296.0	353.8	+20.5	98	658
17662	.567	220.2	341.1	−19.9	93	735
17666	.380	207.0	328.5	−13.6	56	252
17667	.501	177.8	317.1	−23.7	25	135
17669	.440	34.9	302.0	+27.0	15	82
17670	.761	66.0	269.9	+22.1	73	416
17673	.950	115.2	250.9	−21.6	35	210
Oct.10.347		(+26.4)	(304.5)	(+ 6.2)		
17663	.726	292.8	350.0	+20.7	170	1416
a	.773	292.4	354.3	+21.2	78	400
17662	.708	233.0	341.4	−20.2	118	847
17666	.523	231.8	329.4	−13.2	48	342
17668	.455	317.8	324.2	+25.4	7	30
17667	.533	201.2	316.6	−23.6	19	87
17669	.370	8.3	301.1	+27.5	12	51
17670	.610	61.3	269.4	+22.1	78	445
1379a	.771	114.4	258.2	−14.3	0	3
17673	.872	119.6	249.9	−22.0	54	285
Oct.11.341		(+26.4)	(291.4)	(+ 6.1)		
17663	.849	290.6	349.3	+20.7	163	1586
17662	.841	241.2	342.9	−20.1	89	652
17666	.682	242.8	329.8	−13.4	53	328
17668	.591	303.3	324.0	+24.0	22	119
17667	.626	218.8	316.6	−23.6	8	57
17669	.390	336.0	301.6	+26.9	2	12
17672	.566	162.4	280.4	−26.5	1	5
17670	.448	50.9	269.5	+22.0	74	415
17673	.765	125.6	249.5	−21.9	52	253
Oct.12.483		(+26.3)	(276.3)	(+ 6.0)		
17663	.954	289.7	349.5	+20.5	165	1508
17662	.944	247.3	343.3	−19.1	96	503
17666	.834	249.7	329.6	−13.2	72	376
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Oct.12.483	*continued*					
17668	.770	296.5	325.1	+24.1	52	295
17667	.770	231.7	317.5	−24.0	21	52
17670	.301	22.9	269.1	+22.0	83	437
17673	.626	137.6	249.4	−21.5	48	241
17674	.598	132.6	248.8	−18.5	12	54
17675	.709	136.9	243.8	−26.0	16	57
17676	.761	123.9	234.0	−20.7	2	3
17677	.985	116.2	200.5	−24.4	0	11
Oct.13.384		(+26.3)	(264.4)	(+ 5.9)		
17663	.986	290.2	346.1	+20.9	55	466
17662	.979	247.3	339.3	−20.8	53	264
17666	.926	253.1	329.7	−13.2	59	358
17668	.882	292.5	326.1	+22.6	76	416
17667	.862	236.3	316.5	−25.0	59	273
1379b	.444	192.5	270.2	−19.7	1	9
17670	.285	346.5	268.5	+21.9	85	422
17673	.531	152.1	248.9	−22.2	50	246
17674	.487	147.6	248.5	−18.5	18	77
17675	.609	148.9	244.0	−25.8	18	70
17676	.635	133.1	234.8	−20.5	0	1
17677	.930	118.8	201.4	−24.0	30	94
17678	.992	63.5	185.4	+25.3	0	27
Oct.14.364		(+26.3)	(251.5)	(+ 5.9)		
17666	.981	255.1	328.3	−13.4	28	194
17668	.964	292.1	326.9	+22.8	40	225
17667	.944	240.7	316.7	−25.1	94	622
17669	.806	296.7	303.8	+24.8	8	39
17670	.399	315.3	269.0	+22.0	70	360
17679	.400	222.1	267.3	−11.5	2	8
17673	.477	174.0	248.4	−22.3	62	263
17674	.433	165.1	244.8	−18.7	18	73
17675	.537	168.5	244.7	−25.7	9	53
17676	.530	147.4	233.8	−20.8	14	47
17677	.825	123.6	203.3	−23.3	19	103
17678	.951	63.6	179.0	+26.9	0	14
Oct.15.358		(+26.3)	(238.4)	(+ 5.8)		
17667	.984	242.3	313.8	−25.9	36	195
17669	.897	294.9	301.8	+24.8	10	40
17670	.553	301.5	268.8	+21.7	76	368
17679	.550	239.3	267.1	−11.1	7	29
17673	.499	198.3	248.1	−22.4	41	219
17674	.437	194.5	245.0	−19.1	14	64
17675	.532	191.0	244.8	−25.6	5	23
17676	.457	171.3	234.2	−21.0	8	38
17680	.534	130.8	213.8	−15.1	2	9
17677	.704	131.7	203.7	−23.1	18	93
1379c	.944	105.1	169.9	−12.1	0	6
17681	.983	67.5	157.8	+23.1	11	72

Group 17672. Oct. 8 - 11. A tiny spot, seen only on October 8 and 11.
Group 17673. Oct. 8 - 20. A stable regular spot.
Group 17674. Oct. 12 - 20. A group of small spots, immediately following Group 17673.
Group 17675. Oct. 12 - 20. A few small spots with a brief maximum on October 16.
Group 17676. Oct. 12 - 15. A few small spots.
Group 17677. Oct. 12 - 18. A small regular spot, with a companion until October 15.
Group 17678. Oct. 13 - 25. Intermittent. One or two tiny spots, which are growing rapidly at the west limb.
Group 17679. Oct. 14 - 18. A few variable spots.
Group 17680. Oct. 15 - 16. A tiny spot.
Group 17681. Oct. 15 - 22. A slowly-diminishing regular spot, with a few occasional companions.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Oct.16.589		(+26.2)	(222.2)	(+ 5.7)		
1379d	.858	299.6	279.8	+28.2	4	9
17678	.744	294.4	268.9	+21.8	70	328
17679	.753	249.6	268.0	−11.2	13	59
17673	.615	221.0	248.0	−22.5	43	212
17674	.550	220.9	244.5	−19.2	13	74
17675	.547	212.2	240.5	−22.1	21	126
17682	.237	31.8	214.7	+17.3	7	20
17680	.408	151.9	210.8	−15.4	0	1
17677	.546	150.0	205.1	−22.7	13	56
1379e	.716	133.8	187.6	−24.9	1	6
17681	.909	67.2	156.8	+23.1	15	131
Oct.17.366		(+26.2)	(211.9)	(+ 5.6)		
17679	.863	253.4	269.2	−11.2	13	84
17670	.840	292.2	268.5	+21.6	69	347
17673	.706	229.8	247.5	−22.5	57	213
17674	.648	231.4	244.1	−19.0	21	109
17675	.642	225.4	241.3	−21.8	15	90
17682	.213	343.4	215.5	+17.3	7	34
17677	.491	166.1	204.6	−22.8	15	66
17681	.825	65.9	157.3	+22.9	15	98
Oct.18.300		(+26.1)	(199.6)	(+ 5.6)		
17670	.931	291.1	268.5	+21.7	40	294
17679	.945	255.1	268.4	−12.1	10	50
17673	.819	237.1	247.6	−22.7	44	199
17674	.772	239.3	244.1	−19.2	17	84
17675	.744	235.3	240.3	−20.8	4	20
17682	.344	306.7	216.3	+17.2	10	37
17677	.489	189.5	204.6	−23.1	5	15
17678	.525	43.4	175.7	+27.5	0	2
17681	.706	62.9	156.8	+22.8	21	78
17683	.972	139.7	135.8	−45.6	8	27
17684	.979	73.3	120.4	+17.5	94	545
Oct.19.398		(+26.1)	(185.1)	(+ 5.5)		
17670	.989	290.9	267.8	+21.5	36	233
17673	.924	242.7	247.7	−22.6	31	188
17674	.901	245.5	245.1	−19.2	10	86
17675	.884	241.5	241.8	−22.0	14	70
17682	.554	292.4	217.3	+16.8	7	58
17685	.351	222.9	199.1	− 9.5	58	237
17681	.543	54.2	156.6	+23.3	8	47
17683	.937	143.5	132.5	−45.6	11	102
1379f	.901	58.5	122.1	+30.7	0	5
17684	.924	73.8	117.2	+17.0	68	411
Oct.20.353		(+26.0)	(172.5)	(+ 5.4)		
17673	.979	245.7	247.1	−22.4	43	127
17674	.966	248.4	244.3	−19.2	21	110
17675	.950	243.8	239.9	−22.8	14	52
17682	.695	289.0	215.7	+17.0	23	116
17685	.506	240.8	199.0	− 9.4	90	444
17681	.412	40.4	155.7	+23.4	6	23
17683	.883	149.0	132.6	−45.0	28	155
17684	.804	72.7	119.3	+17.0	73	481
1379g	.943	72.2	101.5	+18.6	0	13
17686	.954	58.3	100.1	+31.8	11	54
Oct.21.369		(+25.9)	(159.1)	(+ 5.3)		
17682	.830	286.9	215.0	+17.0	47	254
17685	.701	249.3	200.7	−10.4	69	379
17681	.323	8.7	156.1	+23.8	2	14
17687	.211	31.0	152.6	+15.6	5	20
17683	.846	155.6	129.2	−45.6	27	151
17684	.661	70.5	118.7	+16.7	96	532
17688	.780	115.1	112.1	−15.7	0	6
17689	.783	68.9	108.4	+19.8	0	7
17686	.877	57.2	99.9	+31.1	9	43
17690	.949	80.5	86.9	+10.7	0	14
17691	.990	120.3	81.7	−28.9	31	226
Oct.22.359		(+25.8)	(146.1)	(+ 5.2)		
17682	.938	285.3	216.2	+16.1	40	288
17685	.838	253.8	200.8	−10.5	31	227
17681	.351	331.8	156.4	+23.1	2	10
17687	.218	325.9	153.4	+15.5	0	8
17683	.793	165.2	129.5	−44.9	15	88
17684	.481	64.0	119.4	+16.8	54	367
17688	.673	117.0	108.1	−13.7	6	27
17689	.661	63.2	107.0	+21.3	0	6
17692	.759	124.8	104.1	−21.8	16	98
17686	.780	53.3	99.2	+31.3	6	22
17690	.815	81.6	91.4	+ 9.8	0	3
17691	.952	122.7	80.1	−28.9	71	270
17693	.975	118.6	73.5	−26.3	20	126
17694	.988	77.1	64.3	+13.5	35	195
Oct.23.437		(+25.7)	(131.8)	(+ 5.1)		
17682	.985	287.1	212.8	+17.7	6	62
17685	.955	256.9	202.8	−10.8	29	137
17695	.849	308.4	185.7	+34.8	8	46
17683	.769	177.7	129.3	−44.9	28	112

continued

Group 17682. Oct. 16 - 23. A group which is developing slowly as it passes round the limb.
Group 17683. Oct. 18 - 29. A stream of small unstable spots in high southern latitude.
Group 17684. Oct. 18 - 28. A stream of small spots, dying out before reaching the limb.
Group 17685. Oct. 19 - 24. A short-lived stream, appearing suddenly past the central meridian.
Group 17686. Oct. 20 - 22. A small spot.
Group 17687. Oct. 21 - 22. One or two tiny spots.
Group 17688. Oct. 21 - 23. A small spot.
Group 17689. Oct. 21 - 24. A tiny spot.
Group 17690. Oct. 21 - 22. Tiny variable spots.
Group 17691. Oct.21-Nov.2. A stable regular spot.
Group 17692. Oct. 22 - 29. A few small spots, not seen on October 27 and 28.
Group 17693. Oct.22-Nov.3. A long stream, undergoing slight changes.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Oct.23.437	*continued*					
17684	.308	45.7	118.5	+17.3	37	198
17688	.501	130.1	108.6	−14.1	0	2
17689	.448	57.3	108.4	+18.7	0	5
17692	.616	136.3	104.6	−21.8	17	56
17691	.880	126.9	78.6	−28.8	36	193
17693	.964	121.6	62.8	−28.6	65	515
17694	.944	76.8	60.7	+14.1	46	370
17696	.991	107.9	51.7	−16.9	69	360
Oct.24.353		(+25.6)	(119.8)	(+ 5.0)		
17685	.984	257.8	198.0	−11.0	5	25
17695	.942	305.8	189.0	+35.3	29	162
17678	.845	301.7	175.0	+29.2	7	33
17683	.768	190.4	130.9	−43.9	21	103
17684	.220	4.3	118.8	+17.6	36	159
17689	.265	46.5	108.4	+15.4	1	6
17692	.486	154.9	107.1	−21.2	20	73
17691	.796	132.6	78.0	−28.8	36	190
17697	.828	123.0	70.8	−23.5	4	26
17693	.906	125.2	62.3	−28.8	66	457
17694	.848	76.7	61.8	+13.9	58	322
17696	.943	110.3	52.2	−17.2	115	640
Oct.25.350		(+25.5)	(106.6)	(+ 5.0)		
17678	.939	299.4	176.1	+29.3	29	190
17683	.802	202.2	131.1	−43.3	9	68
17684	.277	319.8	117.3	+17.1	16	81
17692	.431	180.7	106.9	−20.4	21	122
17691	.693	141.8	77.5	−28.6	32	195
17697	.699	131.7	72.0	−23.5	16	65
17693	.807	131.0	63.0	−28.3	50	301
17694	.704	74.8	62.3	+14.2	42	248
17696	.857	113.6	51.5	−17.2	128	659
Oct.26.422		(+25.4)	(92.5)	(+ 4.9)		
17683	.863	211.5	130.9	−43.6	13	85
17684	.448	297.8	116.8	+16.4	9	61
17692	.497	204.3	105.2	−22.1	10	48
17691	.596	156.6	77.1	−27.5	38	188
17697	.558	146.4	73.0	−23.0	3	18
17694	.500	70.0	63.7	+14.1	49	242
17693	.709	140.0	61.4	−28.6	54	367
17696	.732	119.1	50.6	−17.2	103	611
1379h	.803	130.2	48.8	−27.6	0	11
Oct.27.356		(+25.3)	(80.2)	(+ 4.8)		
17683	.913	217.5	129.9	−43.3	13	101
17684	.617	290.7	117.1	+16.4	4	26
17691	.553	173.6	76.2	−28.4	32	207
17697	.491	165.1	72.3	−23.5	0	15
17694	.316	57.5	64.3	+14.3	41	226
17693	.637	150.2	59.0	−29.0	57	373
17696	.607	126.9	49.8	−17.2	105	685
17698	.928	118.1	17.0	−23.8	3	24
Oct.28.373		(+25.1)	(66.8)	(+ 4.7)		
1379i	.953	283.9	139.6	+14.7	3	21
17683	.969	222.9	131.6	−43.2	4	58
17684	.741	285.7	114.1	+14.7	0	17
17691	.563	194.2	75.8	−28.3	24	162
17697	.495	188.7	71.5	−24.5	0	9
17694	.171	25.3	62.5	+13.5	29	130
17693	.580	166.2	57.7	−29.5	65	406
17696	.467	142.6	49.6	−17.2	119	646
17698	.853	122.7	14.9	−24.5	0	18
17699	.967	122.5	357.1	−29.7	4	17
17700	.962	70.1	352.2	+20.4	95	559
17701	.975	108.8	352.0	−17.1	49	351
17702	.979	112.9	351.7	−21.2	10	43
Oct.29.380		(+25.0)	(53.5)	(+ 4.6)		
17683	.983	223.0	123.4	−44.5	0	19
17692	.860	238.5	106.7	−24.0	4	13
17703	.718	287.6	98.7	+15.8	6	24
17704	.611	304.7	86.8	+24.1	3	18
17691	.631	211.1	75.2	−28.4	28	156
17694	.231	315.3	63.1	+13.9	26	149
17693	.565	183.6	55.8	−29.6	64	400
17696	.381	169.8	49.5	−17.3	123	649
17698	.741	129.2	14.6	−24.3	3	7
17699	.897	127.3	357.9	−30.3	4	10
17701	.896	110.8	353.0	−16.3	43	260
17700	.878	69.2	352.6	+20.4	107	624
17702	.913	115.6	351.8	−21.0	16	53
17705	.965	103.8	340.4	−12.0	67	390
Oct.30.361		(+24.8)	(40.5)	(+ 4.5)		
17703	.850	285.5	98.5	+15.5	4	10
1379j	.848	240.9	93.1	−21.6	2	8
17704	.736	300.4	84.8	+25.0	7	23
						continued

Group 17694. Oct.22-Nov.3. A regular spot, with some unstable companions until October 31.
Group 17695. Oct. 23 - 24. A small spot.
Group 17696. Oct.23-Nov.4. A close pair of regular spots, which join together but break up again as they pass out of view.
Group 17697. Oct. 24 - 28. A few small spots.
Group 17698. Oct.27-Nov.7. One or two small spots, not seen on October 31.
Group 17699. Oct. 28 - 31. A tiny spot.
Group 17700. Oct.28-Nov.9. A regular spot, with several small unstable companions until November 5.
Group 17701. Oct.28-Nov.4. A small regular spot with one or two tiny companions, dying out rapidly after November 2.
Group 17702. Oct.28-Nov.8. A pair of small, persistent spots.
Group 17703. Oct. 29 - 31. A spot forming near the west limb.
Group 17704. Oct. 29 - 30. A small spot.
Group 17705. Oct.29-Nov.9. A stream, of which the leader is a regular spot.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Oct.30.361	*continued*					
17691	.723	222.7	74.2	−28.3	27	146
17694	.390	294.1	61.9	+13.3	40	161
17693	.610	202.9	56.3	−29.7	61	460
17696	.400	200.7	49.0	−17.4	98	704
17698	.634	139.3	13.6	−24.6	0	3
17699	.810	133.8	357.8	−30.7	2	11
17701	.793	115.1	352.2	−16.6	27	175
17700	.763	66.7	352.2	+20.5	121	606
17702	.819	119.9	351.1	−21.2	16	73
17705	.875	106.1	341.6	−11.7	96	508
17706	.949	65.5	328.9	+24.6	0	25
Oct.31.567		(+24.6)	(24.6)	(+ 4.4)		
17703	.963	284.6	99.4	+15.2	24	209
17691	.842	232.0	73.3	−28.3	32	128
17694	.626	285.4	62.7	+13.0	32	119
17693	.711	218.6	55.3	−29.9	71	522
17696	.544	227.3	49.3	−17.6	101	530
17699	.690	146.2	358.1	−30.9	0	3
17701	.626	124.9	352.2	−17.2	20	94
17700	.588	59.7	351.8	+20.9	111	583
17702	.664	129.4	351.4	−21.2	10	37
17705	.702	111.7	343.1	−11.7	68	353
17707	.751	123.2	342.5	−21.0	0	10
17708	.793	109.3	334.8	−12.4	18	107
17706	.821	60.4	331.8	+26.6	0	6
17709	.957	118.6	316.1	−25.7	34	243
Nov. 1.385		(+24.5)	(13.8)	(+ 4.3)		
17691	.909	236.1	72.5	−28.2	26	178
17694	.764	283.1	63.3	+12.8	27	129
17693	.793	226.3	55.1	−29.9	72	662
17696	.661	237.1	49.2	−17.5	101	593
17698	.508	168.9	7.6	−25.5	4	36
17701	.505	135.9	352.3	−17.2	15	95
17700	.448	50.3	352.3	+20.5	115	608
17702	.551	140.1	351.7	−20.9	11	44
17710	.481	62.5	347.5	+16.7	1	5
17705	.550	118.5	344.4	−11.4	71	361
17707	.645	130.3	342.1	−21.0	0	6
17708	.666	113.9	335.4	−12.2	17	82
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Nov. 1.385	*continued*					
17706	.727	57.2	331.0	+26.3	0	3
17709	.893	121.8	316.6	−25.7	38	220
17711	.980	106.0	297.2	−14.7	0	22
a	.980	106.0	297.2	−14.7	0	22
Nov. 2.298		(+24.3)	(1.8)	(+ 4.2)		
17691	.966	239.1	72.0	−28.4	44	226
17694	.884	282.2	63.9	+12.7	12	130
17693	.890	232.5	56.5	−30.3	22	229
17696	.789	243.7	49.5	−17.6	67	459
17698	.495	189.1	6.7	−24.9	0	5
17701	.397	157.1	352.5	−17.2	16	85
17700	.331	27.8	352.3	+21.1	66	490
17702	.461	159.5	351.9	−21.3	4	39
17710	.341	44.3	347.4	+18.1	2	34
17705	.390	133.5	345.1	−11.5	57	322
17712	.496	136.1	340.8	−16.9	2	20
17713	.534	128.0	336.0	−15.3	2	12
17708	.521	121.4	334.9	−11.9	12	64
17709	.804	126.8	316.3	−25.8	48	210
17711	.915	107.5	297.9	−14.1	39	281
a	.909	107.5	298.8	−13.9	36	248
17714	.991	62.0	278.5	+28.3	22	231
Nov. 3.292		(+24.2)	(348.7)	(+ 4.1)		
17694	.964	281.6	63.5	+12.2	7	70
17693	.952	236.2	55.0	−30.4	20	122
17696	.893	248.6	48.9	−17.0	42	329
17698	.557	207.0	4.9	−25.7	0	8
17700	.304	349.6	352.1	+21.4	70	418
17701	.361	185.9	350.9	−16.9	8	57
17702	.431	181.9	349.6	−21.3	1	11
17715	.570	359.6	349.0	+38.7	4	26
17710	.228	0.2	348.6	+17.2	1	4
17705	.276	167.7	345.3	−11.5	54	361
17712	.370	162.6	342.1	−16.6	4	21
17708	.363	138.8	334.6	−11.8	7	33
17713	.429	141.2	332.6	−15.5	14	86
17709	.696	134.6	315.5	−25.7	41	214
17711	.814	110.4	297.1	−13.9	87	426
a	.791	110.2	299.2	−13.1	52	266
17714	.957	62.2	276.0	+27.7	68	551
17716	.996	108.2	265.8	−17.6	43	261
a	.996	108.2	265.8	−17.6	43	261
17717	.993	67.4	264.6	+22.9	16	171

Group 17706. Oct.30-Nov.11. A small spot until November 1. Nothing is then seen until November 5, when a stream develops.
Group 17707. Oct.31-Nov.1. A pair of tiny spots on October 31; a single spot on the next day.
Group 17708. Oct.31-Nov.4. A small spot, immediately following Group 17705.
Group 17709. Oct.31-Nov.12. A stable regular spot.
Group 17710. Nov. 1 - 4. One or two tiny spots.
Group 17711. Nov. 1 - 12. A stream of normal type, of which the leader is the only stable component.
Group 17712. Nov. 2 - 4. A small spot.
Group 17713. Nov. 2 - 6. A pair of small spots, soon breaking up and dying out.
Group 17714. Nov. 2 - 14. A composite spot, soon breaking up and forming a stream, of which only the leader remains by November 13.
Group 17715. Nov. 3 - 8. A small stream, forming near the central meridian.
Group 17716. Nov. 3 - 15. A regular spot, with a number of fairly large, closely-associated companions. On November 10 they begin to separate from it and die out. By November 14 the regular spot has divided into two and is diminishing.
Group 17717. Nov. 3 - 16. A group of small unstable spots, which are assuming stream formation as they approach the limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Nov. 4.294		(+24.0)	(335.5)	(+ 4.0)		
17696	.969	250.9	48.9	−17.3	42	216
17718	.745	239.2	18.1	−19.4	2	10
17698	.667	224.2	6.2	−25.0	3	17
17702	.510	210.5	351.7	−22.1	3	28
17700	.393	319.0	351.5	+21.0	60	362
17701	.445	216.1	351.4	−17.1	1	6
17715	.596	342.4	348.7	+38.4	24	123
17710	.304	321.4	346.9	+17.6	0	13
17705	.326	213.4	346.0	−11.8	51	285
17712	.384	199.0	343.0	−17.3	0	4
17708	.280	178.2	335.0	−12.2	2	13
17713	.335	170.8	332.3	−15.2	15	73
17709	.588	147.5	315.0	−25.9	40	217
17711	.679	115.8	296.6	−14.1	106	640
a	.636	115.2	299.5	−12.4	54	302
17714	.891	61.3	274.1	+27.3	109	1007
17716	.956	109.8	265.1	−17.6	76	403
a	.956	109.8	265.1	−17.6	76	403
17717	.948	67.2	264.3	+22.8	29	164
Nov. 5.557		(+23.7)	(318.8)	(+ 3.8)		
17718	.901	246.1	19.5	−19.5	2	10
17698	.820	236.0	7.1	−24.7	5	25
17702	.669	228.9	351.8	−22.8	14	38
17700	.585	301.0	351.1	+20.7	68	293
17715	.695	325.3	348.8	+38.0	47	297
17705	.518	239.5	345.8	−11.8	39	204
17713	.395	215.5	332.4	−14.4	7	58
17706	.397	347.2	324.4	+26.5	0	12
17709	.506	171.5	314.0	−26.1	46	190
17719	.644	155.3	300.3	−32.1	0	7
17711	.472	128.3	296.5	−13.5	133	731
a	.414	129.6	299.9	−11.7	70	346
17720	.762	119.9	274.5	−19.6	2	10
17714	.769	56.5	272.6	+27.7	131	1001
17716	.848	113.3	264.3	−17.4	145	671
a	.848	113.3	264.3	−17.4	143	658
17717	.838	64.9	263.5	+23.0	36	164
17721	.879	61.0	259.3	+27.1	0	7
17722	.982	113.3	242.5	−22.0	168	1773
a	.963	113.1	247.4	−21.0	81	470
Nov. 6.509		(+23.5)	(306.3)	(+ 3.7)		
17698	.904	240.4	6.0	−24.6	26	98
17702	.786	236.3	351.5	−23.2	10	37
17700	.728	295.5	350.8	+20.9	64	275
17715	.785	317.1	348.7	+37.7	44	236
17705	.675	248.1	345.9	−11.7	49	210
17713	.561	236.3	335.1	−14.8	2	14
17706	.455	318.9	325.3	+23.5	14	64
17709	.513	192.5	313.4	−26.3	38	201
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Nov. 6.509	*continued*					
17719	.537	170.3	300.4	−28.1	0	2
17711	.328	151.8	297.2	−13.1	136	665
a	.276	158.7	300.5	−11.2	81	426
17720	.616	128.7	275.8	−19.4	1	8
17714	.647	49.5	272.6	+27.8	143	771
17716	.731	117.7	263.9	−17.1	147	752
a	.727	118.6	264.4	−17.6	126	593
17717	.722	60.8	263.2	+23.3	28	161
17721	.789	57.1	258.0	+27.8	11	58
17722	.924	115.7	242.6	−22.0	210	1866
a	.890	115.9	247.5	−20.9	81	437
17723	.994	74.5	222.1	+15.8	18	136
Nov. 7.494		(+23.3)	(293.3)	(+ 3.6)		
17698	.971	242.9	5.9	−25.2	41	164
17702	.889	241.9	351.4	−22.8	13	83
17700	.852	292.5	350.5	+21.0	63	250
17715	.881	311.7	349.5	+37.9	33	158
17705	.816	253.1	345.9	−11.5	34	180
1380a	.696	298.6	334.4	+22.1	3	12
17706	.590	306.5	324.3	+23.6	46	188
17709	.582	211.3	312.9	−26.3	32	152
17711	.292	195.2	297.8	−12.7	123	735
a	.286	207.9	301.1	−11.0	67	442
17714	.526	37.1	272.3	+28.0	104	651
17716	.584	126.7	264.1	−17.2	187	929
a	.588	128.3	264.4	−18.1	117	588
17717	.590	53.6	262.2	+23.5	25	166
17721	.664	50.5	258.0	+27.8	27	152
17722	.829	119.5	242.5	−21.8	232	1845
a	.784	120.5	247.1	−20.9	94	487
17723	.960	72.9	219.5	+17.4	138	679
Nov. 8.399		(+23.1)	(281.4)	(+ 3.5)		
17702	.960	244.9	351.9	−22.9	19	101
17700	.932	291.4	349.7	+21.2	50	245
17715	.943	309.1	349.2	+37.9	23	150
17705	.921	256.5	347.0	−11.0	28	135
17706	.724	300.4	324.3	+24.0	60	363
17709	.675	223.5	312.5	−26.2	39	185
17719	.610	207.5	300.2	−29.3	3	28
17711	.396	224.5	297.9	−13.0	127	730
a	.423	233.7	301.6	−11.2	77	506
17714	.441	19.9	271.7	+27.8	83	619
1380b	.312	122.4	266.1	− 6.2	2	10
17716	.449	140.4	264.1	−16.8	165	1059
a	.464	140.1	263.3	−17.5	133	869
17717	.462	40.7	262.3	+23.7	30	128
17721	.528	39.4	259.3	+27.3	32	174
17722	.720	125.1	242.2	−21.7	248	1590
a	.668	127.3	246.9	−20.9	97	446
17723	.878	72.5	220.5	+17.0	143	785
1380c	.945	117.0	214.3	−24.1	0	3

Group 17718. Nov. 4 - 5. A pair of tiny spots on November 4; a single spot on November 5.
Group 17719. Nov. 5 - 8. A tiny spot, not seen on November 7.
Group 17720. Nov. 5 - 14. A few small spots, not seen on November 7 and 8.
Group 17721. Nov. 5 - 10. A group of small unstable spots.
Group 17722. Nov. 5 - 17. A compact stream, of which a large regular spot, at first situated just north of the central portion, finally becomes the leader.
Group 17723. Nov. 6 - 18. A stream, of which the leader remains a small regular spot throughout the transit, while the following part coalesces into a composite cluster and slowly dies out.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Nov. 9.448		(+22.9)	(267.5)	(+ 3.4)		
17700	.988	291.2	348.8	+21.4	22	186
17705	.986	259.2	346.7	−10.0	12	53
17706	.846	297.5	323.1	+24.9	54	346
17709	.793	232.5	311.9	−26.4	25	154
17711	.578	242.0	298.9	−12.8	105	634
a	.613	246.1	302.3	−11.5	83	438
17720	.437	204.8	278.7	−19.9	10	62
17714	.432	350.3	272.2	+28.5	55	433
17716	357	171.1	264.2	−17.2	151	898
a	.371	169.2	263.3	−17.9	116	705
17717	.367	16.5	261.0	+23.9	15	74
17721	.431	18.3	258.8	+27.5	14	81
17722	.580	136.9	242.3	−21.9	243	1629
a	.536	140.5	246.1	−21.2	87	496
17723	.747	70.3	220.4	+16.9	131	814
Nov.10.295		(+22.7)	(256.4)	(+ 3.3)		
17706	.920	296.3	322.1	+25.4	53	327
17709	.873	237.1	311.1	−26.4	25	182
17711	.710	247.7	298.6	−13.1	85	521
a	.753	251.1	302.9	−11.8	69	397
17720	.536	223.9	279.5	−19.6	14	61
17714	.485	330.7	271.9	+28.1	43	329
17716	.377	198.9	263.7	−17.6	145	751
a	.394	198.4	263.9	−18.6	83	348
17717	.366	348.7	260.9	+24.2	9	86
17721	.427	4.9	254.0	+28.4	2	20
17722	.486	150.5	240.5	−21.7	210	1521
a	.456	157.9	245.8	−21.7	83	420
17724	.628	126.9	224.4	−19.3	1	11
a	.616	127.9	225.5	−19.3	1	8
17723	.606	66.4	221.1	+16.7	123	768
17725	.979	62.7	178.2	+27.4	0	14
17726	.991	104.1	175.3	−13.5	35	249
Nov.11.490		(+22.4)	(240.6)	(+ 3.2)		
17706	.982	296.3	319.6	+26.4	17	171
17709	.963	241.2	311.1	−26.6	24	148
17711	.889	253.8	301.5	−12.8	63	469
a	.896	255.2	302.6	−11.7	47	367
17720	.688	236.7	278.1	−19.6	8	51
17714	.639	312.8	271.7	+28.4	44	244
17716	.510	226.4	263.3	−17.6	109	540
a	.521	225.2	263.4	−18.5	68	309
17717	.438	322.9	257.3	+23.4	28	112
17722	.430	181.4	241.2	−22.1	202	1315
a	.439	190.8	245.7	−22.3	66	382
17724	.448	147.0	225.7	−18.9	15	86
a	.433	149.6	227.3	−18.7	8	58
17723	.414	54.8	220.0	+16.7	105	607
1380d	.755	123.0	197.8	−21.8	0	3
17725	.898	61.7	178.6	+26.7	0	20
17726	.922	106.2	175.2	−13.5	89	578
Nov.12.395		(+22.1)	(228.7)	(+ 3.1)		
17709	.994	243.1	310.0	−26.3	18	114
17711	.972	256.3	303.9	−12.5	50	467
17720	.800	242.8	277.4	−19.3	5	38
17714	.755	305.8	272.7	+28.4	30	209
17716	.644	237.0	263.1	−17.9	80	486
a	.650	236.2	263.3	−18.6	61	302
17717	.534	309.2	255.2	+22.5	26	164
17722	.467	204.4	240.7	−22.0	184	1357
a	.508	211.8	245.5	−22.5	49	296
17724	.368	174.8	226.7	−18.3	61	289
a	.366	180.4	228.9	−18.3	35	180
17723	.275	30.8	220.3	+16.7	60	627
1380e	.341	153.8	219.8	−14.7	5	27
17727	.330	127.7	213.5	− 8.6	2	19
17725	.801	59.5	178.7	+26.0	2	18
17726	.822	108.3	175.7	−13.1	123	685
Nov.13.292		(+21.9)	(216.9)	(+ 3.0)		
17720	.884	246.4	275.7	−19.1	4	18
17714	.856	301.5	272.6	+28.2	29	231
17716	.775	242.9	263.4	−18.5	69	416
a	.769	242.5	262.8	−18.7	62	377
17717	.660	301.8	254.2	+22.6	54	368
17722	.560	220.4	239.9	−22.4	152	1182
a	.621	225.8	245.7	−23.0	49	248
17724	.401	206.1	227.5	−18.1	75	392
a	.419	212.4	230.5	−17.7	54	265
17723	.253	341.5	221.7	+16.9	46	338
17727	.215	166.2	213.9	− 9.0	4	35
17726	.687	111.6	176.2	−12.4	93	739
Nov.14.292		(+21.6)	(203.7)	(+ 2.9)		
17720	.960	248.8	275.1	−19.4	4	14
17714	.941	299.5	270.6	+27.3	31	191
17716	.884	246.6	262.6	−19.0	59	390
a	.884	246.6	262.6	−19.0	54	358
17717	.786	297.4	252.8	+23.0	80	480
17722	.684	232.6	239.5	−22.1	150	1141
a	.746	235.6	245.4	−22.7	41	187
17724	.527	228.4	228.0	−17.8	139	727
a	.553	232.0	230.7	−17.3	88	451
17723	.396	307.6	222.7	+16.6	44	239
17727	.271	222.0	214.2	− 8.7	3	31
17728	.582	140.2	179.8	−23.8	1	8
17726	.512	120.0	176.8	−12.2	122	916
Nov.15.439		(+21.3)	(188.5)	(+ 2.7)		
17716	.968	249.4	261.9	−19.1	61	300
a	.968	249.4	261.9	−19.1	61	300
17717	.912	295.1	252.9	+24.0	95	476

continued

Group 17724. Nov. 10 - 18. A stream, developing from a pair of tiny spots first seen on November 10. The leader becomes regular in outline and is the most stable component.
Group 17725. Nov. 10 - 12. A small spot.
Group 17726. Nov. 10 - 22. At first a regular spot with a few north preceding companions. On November 14 these begin to grow rapidly and the whole group becomes a complex composite structure.
Group 17727. Nov. 12 - 19. Two or three small spots.
Group 17728. Nov. 14 - 21. A few small unstable spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Nov.15.439	*continued*					
17722	.833	240.3	239.9	−22.6	150	1264
a	.880	242.1	245.8	−22.8	23	141
17724	.701	240.4	228.2	−18.1	159	1152
a	.733	242.8	231.5	−17.6	115	718
17723	.631	292.6	225.7	+16.1	26	185
17727	.499	247.1	216.1	− 8.7	5	27
1380f	.450	307.1	210.6	+18.2	1	10
17729	.326	346.3	193.2	+21.1	29	98
17728	.476	162.7	179.6	−24.3	23	110
17726	.334	142.9	176.6	−12.8	168	1233
17730	.969	107.5	114.5	−16.2	0	18
17731	.985	75.5	108.4	+14.7	62	358
Nov.16.482		(+21.0)	(174.8)	(+ 2.6)		
17717	.966	296.0	249.2	+25.8	17	108
17722	.923	244.2	238.7	−22.5	99	935
a	.953	244.2	244.0	−23.6	24	143
17724	.845	246.0	229.1	−18.6	146	962
a	.867	247.2	231.9	−18.2	125	764
17723	.787	288.4	225.6	+16.0	21	186
17732	.776	301.4	221.9	+25.6	9	60
17727	.698	255.2	217.6	− 8.3	3	12
17729	.443	318.2	193.2	+21.7	26	197
17728	.462	191.2	180.4	−24.3	15	89
17726	.275	187.4	176.9	−13.1	193	1646
17730	.899	109.8	113.1	−16.5	15	89
17731	.925	75.2	107.5	+14.7	108	560
Nov.17.297		(+20.8)	(164.1)	(+ 2.5)		
17722	.971	245.3	237.5	−23.2	79	875
a	.989	244.6	243.3	−24.6	13	105
17724	.926	249.0	229.5	−18.3	151	742
a	.938	249.6	231.5	−18.1	133	639
17723	.891	286.8	226.5	+16.1	24	164
17732	.861	299.0	220.8	+26.0	14	69
17727	.807	258.6	216.8	− 7.6	7	29
17729	.568	306.4	193.5	+21.8	34	156
17728	.531	213.9	182.9	−23.7	6	26
17726	.362	220.8	178.1	−13.4	180	1923
1380g	.319	57.2	148.2	+12.3	4	13
17730	.792	112.0	114.6	−15.6	43	180
17731	.841	74.0	107.6	+14.8	64	454
17733	.993	113.8	82.9	−23.3	53	362
1956		°	°	°		
Nov.18.297		(+20.5)	(150.9)	(+ 2.4)		
17724	.987	250.7	230.1	−18.6	100	692
a	.991	251.1	231.7	−18.4	90	596
17723	.976	285.9	228.3	+16.0	21	186
17732	.933	298.1	218.1	+26.9	14	67
17727	.907	260.5	215.1	− 7.5	2	25
17729	.708	299.7	192.4	+22.3	15	97
17728	.640	226.1	181.1	−24.2	15	74
17726	.519	239.1	178.0	−13.2	200	1942
1380h	.507	343.3	160.7	+31.3	0	9
17730	.635	117.9	115.5	−15.3	33	281
17731	.703	70.9	107.6	+15.0	92	470
17733	.967	115.9	78.5	−24.3	187	1090
Nov.19.449		(+20.2)	(135.7)	(+ 2.2)		
17727	.991	262.4	217.4	− 7.2	7	47
17732	.987	297.6	216.2	+27.6	6	67
17729	.859	294.6	193.0	+22.1	8	63
17728	.786	235.7	181.1	−24.6	25	116
17726	.706	248.2	177.9	−13.5	230	1895
17730	.437	132.8	116.4	−15.2	45	269
17731	.507	63.4	107.8	+15.0	68	417
17734	.593	117.8	103.1	−14.1	6	31
17733	.881	119.2	78.4	−24.3	227	1377
17735	.893	51.8	77.4	+34.6	14	51
17736	.989	120.0	57.1	−29.2	0	30
Nov.20.437		(+19.8)	(122.7)	(+ 2.1)		
17729	.961	291.0	196.1	+20.7	0	16
17728	.898	241.2	182.4	−24.5	24	122
17726	.847	251.7	178.5	−14.2	227	1906
17730	.318	164.0	117.5	−15.6	80	385
17731	.335	48.2	107.8	+14.8	82	409
17734	.451	130.6	102.0	−15.0	20	122
17737	.476	53.7	99.0	+18.2	5	22
17735	.781	45.6	80.2	+34.5	6	14
17733	.764	124.6	79.3	−24.1	222	1050
17736	.944	122.0	56.5	−29.1	6	20
Nov.21.455		(+19.5)	(109.3)	(+ 2.0)		
17728	.966	243.9	181.5	−24.5	12	39
17726	.944	254.3	179.1	−14.8	206	1688
17738	.817	307.5	158.3	+31.1	11	54
						continued

Group 17729. Nov. 15 - 20. Two or three small spots.
Group 17730. Nov. 15 - 26. A stream, of which the leader, a composite spot, is the largest component.
Group 17731. Nov. 15 - 27. A slowly-diminishing composite spot, with a companion on November 25 and 26.
Group 17732. Nov. 16 - 19. A pair of small spots.
Group 17733. Nov. 17 - 30. A long stream, of which the leader, a large composite spot is the most stable component.
Group 17734. Nov. 19 - 24. A few small spots.
Group 17735. Nov. 19 - 22. A pair of small spots on November 19; only one is left on the following days.
Group 17736. Nov. 19 - 20. A small spot.
Group 17737. Nov. 20 - 21. One or two small spots.
Group 17738. Nov. 21 - 22. A few tiny spots, appearing near the west limb.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Umb.	Area Whole Spots
1956		°	°	°		
Nov.21.455 *continued*						
17730	.339	205.5	118.0	−15.7	92	509
17731	.228	5.1	108.1	+15.1	58	332
17734	.317	155.7	101.6	−14.7	7	32
17737	.327	35.1	98.0	+17.4	1	5
17735	.676	35.4	80.8	+35.1	3	14
17733	.635	133.5	79.1	−24.1	234	1289
Nov.22.405		(+19.2)	(96.7)	(+1.9)		
17726	.989	255.9	177.3	−13.7	159	954
17738	.913	302.8	159.4	+30.5	0	27
17739	.538	298.7	126.1	+16.6	0	6
17730	.476	230.0	118.9	−16.0	109	620
1380i	.714	198.9	114.4	−40.6	3	16
17731	.300	320.6	108.0	+15.2	34	360
17735	.595	21.7	81.1	+35.2	1	8
17733	.503	149.9	80.8	−23.8	218	1218
17740	.887	122.1	39.3	−27.1	4	16
17741	.966	73.8	23.1	+15.1	17	108
Nov.23.384		(+18.9)	(83.8)	(+1.8)		
17739	.698	292.4	126.0	+16.7	6	40
17730	.637	241.6	119.3	−16.1	113	633
17731	.462	300.4	108.1	+15.1	41	234
17733	.440	174.1	81.0	−24.1	213	1097
17741	.899	72.9	20.6	+16.1	27	190
Nov.24.299		(+18.6)	(71.8)	(+1.6)		
17739	.814	290.5	124.6	+17.5	0	7
17730	.782	247.4	120.4	−16.4	89	541
17731	.622	292.1	108.2	+14.8	22	203
17733	.461	198.3	80.9	−24.2	157	885
17741	.789	69.8	21.4	+16.8	21	145
Nov.25.306		(+18.2)	(58.5)	(+1.5)		
17730	.901	251.4	120.9	−16.0	69	646
17731	.759	289.1	106.3	+15.3	14	100
17733	.572	219.0	81.8	−25.0	157	913
17740	.591	145.4	36.3	−27.6	16	102
17741	.641	66.6	20.9	+15.9	35	248
17742	.919	114.0	354.4	−21.3	3	8
17743	.977	107.2	342.1	−16.4	9	122
Nov.26.421		(+17.8)	(43.8)	(+1.4)		
17730	.985	254.1	122.9	−15.4	51	596
17731	.895	287.9	106.3	+16.6	14	88
17733	.721	234.2	83.4	−23.8	137	845
17740	.497	165.9	36.0	−27.3	15	92
17741	.455	56.7	20.6	+15.7	47	386
17742	.812	116.6	353.2	−20.4	0	8
17743	.892	109.1	342.6	−16.3	20	140
17744	.951	67.1	332.9	+22.2	0	6
Nov.27.494		(+17.4)	(29.7)	(+1.3)		
17731	.975	286.3	106.5	+16.1	9	49
17733	.850	240.6	83.5	−23.8	105	843
17740	.491	190.0	35.2	−27.5	9	35
17741	.293	30.3	20.9	+15.9	66	373
17742	.659	124.1	354.2	−20.5	1	10
17745	.661	61.8	351.8	+19.1	1	9
17743	.746	112.7	344.2	−15.8	16	82
17744	.843	64.2	334.9	+22.2	10	54
17746	.958	66.1	317.5	+23.3	7	29
17747	.989	102.4	309.0	−12.1	36	269
Nov.28.433		(+17.1)	(17.3)	(+1.1)		
17733	.924	243.6	81.8	−23.8	103	713
17740	.542	207.2	33.5	−27.6	6	15
17741	.263	347.6	20.7	+16.0	37	216
17748	.490	150.7	2.1	−24.1	11	39
17742	.541	133.1	352.4	−20.6	2	10
17743	.600	118.7	344.3	−15.8	11	72
17744	.724	59.9	335.0	+22.0	47	274
17746	.885	63.9	317.5	+23.5	7	40
17749	.946	63.9	308.0	+24.9	0	14
17747	.953	103.4	305.9	−12.4	42	390
17750	.972	116.2	303.1	−25.1	15	90
Nov.29.491		(+16.7)	(3.3)	(+1.0)		
17733	.976	245.7	78.9	−23.4	77	526
17740	.665	223.7	34.5	−27.8	9	41
17741	.397	311.5	21.3	+16.1	37	192
17751	.324	182.3	4.1	−13.8	2	28
17748	.433	176.3	1.5	−24.5	7	37
17745	.451	41.7	344.7	+20.5	1	7

continued

Group 17739. Nov. 22 - 24. A tiny spot on November 22 and 24; a pair on November 23.
Group 17740. Nov. 22 - 30. A few small unstable spots, not seen on November 23 and 24.
Group 17741. Nov.22-Dec.3. A stream of small changing spots.
Group 17742. Nov. 25 - 30. One or two tiny spots, not seen on November 29.
Group 17743. Nov.25-Dec.6. A stream of small variable spots.
Group 17744. Nov.26-Dec.7. A stream, developing from a tiny spot first seen on November 26. The follower is the largest and most stable component.
Group 17745. Nov.27-Dec.5. A small spot, not seen on November 28, with an increase in area on December 3 and 4.
Group 17746. Nov. 27 - 30. A small spot.
Group 17747. Nov.27-Dec.5. A group of changing spots, dying out on the disk.
Group 17748. Nov. 28 - 30. A pair of small spots.
Group 17749. Nov.28-Dec.9. A regular spot, followed by some small unstable companions until December 3.
Group 17750. Nov.28-Dec.3. A small spot, dying out after a few days.
Group 17751. Nov.29-Dec.1. Intermittent. A few tiny spots on November 29; a single spot on December 1.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Nov.29.491	*continued*					
17743	.432	132.0	343.9	−15.8	9	60
17744	.570	51.1	334.9	+21.7	94	486
17746	.770	59.9	317.0	+23.3	2	10
17749	.862	61.5	306.9	+24.8	16	98
17747	.855	105.3	305.9	−12.5	54	355
17750	.902	118.5	302.6	−24.9	10	75
17752	.979	106.9	286.2	−16.3	10	48
Nov.30.390		(+16.4)	(351.5)	(+ 0.9)		
17733	.990	245.6	72.0	−24.0	7	141
17740	.770	231.6	34.4	−27.8	7	48
17741	.547	299.0	21.2	+16.1	28	180
17748	.457	205.4	3.8	−23.4	6	31
1381a	.472	194.8	359.2	−26.1	2	25
17742	.375	180.0	351.5	−21.0	1	5
17745	.329	9.2	348.3	+19.8	1	8
17753	.283	31.8	342.7	+14.7	13	78
17743	.341	151.9	341.9	−16.5	5	34
17744	.438	36.3	335.4	+21.5	93	698
17746	.649	53.8	316.9	+23.2	1	6
17749	.748	58.0	307.7	+23.9	49	244
17747	.735	108.6	306.1	−12.9	53	282
17759	.815	122.6	302.2	−25.4	17	86
17752	.915	108.8	287.0	−16.7	0	16
Dec. 1.591		(+15.9)	(335.7)	(+ 0.7)		
17741	.782	288.6	25.6	+14.9	5	27
17751	.531	233.1	2.1	−17.9	2	24
17745	.432	316.8	353.8	+19.0	5	29
17754	.542	338.5	349.0	+30.6	15	59
17753	.270	338.9	341.5	+15.2	9	49
17743	.278	199.6	341.2	−14.4	5	20
17744	.365	1.5	335.1	+22.0	100	658
17755	.381	26.0	325.5	+20.6	5	21
17749	.584	46.9	308.0	+24.1	44	281
17747	.521	115.5	307.1	−12.3	31	161
17750	.666	130.0	301.7	−24.7	25	77
17752	.819	112.0	283.2	−17.4	11	57
17756	.979	66.9	258.3	+22.8	0	26
Dec. 2.312		(+15.6)	(326.2)	(+ 0.6)		
17741	.872	286.2	25.8	+14.4	0	4
17745	.533	306.0	353.2	+18.7	2	10
17754	.600	325.9	349.0	+30.2	9	44
17743	.367	222.0	340.9	−15.2	4	32
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Dec. 2.312	*continued*					
17753	.348	315.6	340.7	+15.0	7	46
17744	.391	339.8	334.5	+22.0	87	691
17755	.343	2.6	325.3	+20.5	7	61
17749	.486	36.2	308.0	+23.6	46	312
17747	.395	127.0	307.4	−13.1	20	115
17750	.579	138.8	301.4	−25.1	8	54
17752	.737	114.6	281.8	−17.4	9	54
17757	.940	60.6	258.8	+27.7	3	14
17756	.941	66.3	257.6	+22.5	6	28
17758	.972	115.4	251.8	−24.4	52	280
Dec. 3.475		(+15.1)	(310.8)	(+ 0.5)		
17741	.972	284.5	26.6	+14.2	8	40
17745	.730	295.4	354.7	+18.5	24	135
17754	.751	308.3	352.5	+28.0	0	4
17743	.567	239.7	341.3	−16.1	17	105
17744	.514	315.5	333.5	+21.8	70	471
17747	.235	170.7	308.6	−12.9	5	34
17749	.395	8.8	307.0	+23.4	40	268
17750	.465	159.9	300.6	−25.3	2	15
17752	.543	123.5	282.7	−17.0	12	78
17756	.828	63.5	258.0	+21.9	2	12
17757	.858	57.8	256.1	+27.5	4	28
17759	.896	51.0	253.3	+34.5	0	7
17758	.891	118.3	251.3	−24.7	43	254
17760	.952	116.1	241.0	−24.5	3	24
1381b	.951	109.5	240.3	−18.3	6	27
17761	.966	106.1	236.7	−15.4	46	272
17762	.983	113.4	232.9	−22.8	11	69
17763	.990	109.7	229.7	−19.4	75	422
Dec. 4.348		(+14.8)	(299.3)	(+ 0.4)		
17745	.842	292.6	354.4	+19.1	27	150
17754	.848	304.1	352.2	+28.6	2	16
17743	.721	246.8	342.7	−16.1	11	71
17744	.634	305.7	332.9	+22.0	85	451
17747	.281	214.2	308.6	−12.9	5	34
17749	.415	342.8	307.0	+23.6	56	252
17752	.402	138.0	283.0	−17.0	16	101
17756	.721	58.8	257.7	+22.1	1	6
17757	.757	53.1	256.5	+27.3	14	51
17759	.816	46.5	253.7	+34.3	3	11
17758	.803	121.8	250.8	−24.7	59	279
17760	.887	117.6	240.1	−24.0	4	14
17761	.890	108.5	238.0	−16.2	42	276
17762	.938	114.6	231.8	−22.8	11	72
17763	.959	109.8	227.2	−18.8	260	1359

Group 17752. Nov.29-Dec.10. A stream of small changing spots.
Group 17753. Nov.30-Dec.2. A group of tiny spots.
Group 17754. Dec. 1 - 5. A pair of small spots, except on December 3, when only one is seen.
Group 17755. Dec. 1 - 2. A pair of small spots.
Group 17756. Dec. 1 - 13. Intermittent. A tiny spot until December 6. On December 10 a short stream appears in the same position.
Group 17757. Dec. 2 - 13. A stream, developing from a tiny spot on December 2. By December 8 it has completely coalesced but breaks up after a few days.
Group 17758. Dec. 2 - 14. A stable regular spot.
Group 17759. Dec. 3 - 5. A tiny spot.
Group 17760. Dec. 3 - 4. A pair of tiny spots on December 3; a single spot on December 4.
Group 17761. Dec. 3 - 15. A group of changing spots, of which only one small spot remains by December 13. This is growing again as it passes round the limb.
Group 17762. Dec. 3 - 8. A short-lived stream of small spots.
Group 17763. Dec. 3 - 16. A pair of composite spots. The leader has a preceding appendage which it slowly absorbs.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Dec. 5.282		(+14.4)	(287.0)	(+ 0.3)		
17745	.926	290.0	353.4	+18.5	10	77
17754	.919	301.4	350.2	+28.7	0	13
17743	.846	250.8	343.0	−16.0	7	47
17744	.764	298.5	333.0	+21.5	78	545
17764	.695	311.6	322.8	+27.6	2	13
17747	.443	237.1	309.4	−13.6	1	9
17749	.506	321.4	307.0	+23.5	36	185
17752	.305	168.7	283.4	−17.0	16	163
17757	.644	45.5	256.1	+27.0	19	95
17759	.709	38.4	255.1	+33.9	1	6
17756	.612	54.5	254.9	+21.0	0	5
17758	.687	128.4	250.7	−24.9	41	242
17761	.781	111.0	237.8	−16.0	41	264
17762	.857	117.0	231.4	−22.6	18	164
17763	.881	110.8	227.2	−18.1	240	1362
17765	.945	112.6	217.9	−21.2	12	69
17766	.960	107.2	215.3	−15.2	44	338
Dec. 6.480		(+13.9)	(271.2)	(+ 0.1)		
17743	.958	253.5	343.5	−15.7	7	33
17744	.891	294.5	331.8	+21.7	77	576
17764	.844	302.7	324.0	+27.1	0	2
17749	.670	307.2	306.8	+23.9	23	163
17752	.371	216.9	284.6	−17.0	15	94
17756	.446	34.5	255.5	+21.6	2	18
17757	.518	28.3	255.3	+27.1	48	300
17758	.537	142.8	250.3	−25.1	57	286
17761	.608	118.7	237.5	−16.9	46	267
17762	.710	124.1	231.6	−23.3	26	138
17763	.747	115.3	226.0	−18.5	252	1597
17765	.847	116.3	216.5	−21.9	24	145
17766	.859	109.4	213.7	−16.5	42	181
17767	.857	102.9	213.1	−11.0	2	12
Dec. 7.282		(+13.6)	(260.7)	(0.0)		
17744	.948	293.4	330.3	+22.1	70	431
17749	.780	301.6	307.2	+24.0	26	164
17752	.493	234.0	285.2	−16.8	11	93
17757	.457	9.9	255.7	+26.6	46	373
17758	.457	158.0	249.9	−25.0	58	323
17761	.472	126.6	237.6	−16.3	37	198
17762	.604	129.9	230.7	−22.7	10	67
17763	.629	120.6	226.0	−18.6	224	1475
17765	.742	120.0	217.1	−21.7	25	153
17766	.761	112.0	213.5	−16.5	37	170
17767	.767	104.6	211.8	−11.1	2	10
Dec. 8.427		(+13.1)	(245.6)	(− 0.1)		
17749	.899	297.4	306.5	+24.3	34	147
17752	.688	244.9	286.1	−17.0	10	53
17757	.471	342.8	254.5	+26.5	54	531
17758	.427	188.7	249.7	−25.0	48	315
17761	.323	154.1	237.2	−16.9	27	111
17762	.457	146.5	229.8	−22.5	5	27
17763	.452	135.3	226.1	−18.8	289	1376
17765	.576	129.8	217.3	−21.6	25	137
17767	.536	110.1	214.9	−10.6	7	46
17766	.585	119.8	213.7	−16.9	32	140
17768	.817	104.0	191.8	−11.4	2	13
17769	.904	116.1	183.6	−23.5	2	10
17770	.947	61.0	177.2	+27.2	3	14
Dec. 9.300		(+12.7)	(234.1)	(− 0.3)		
17749	.959	295.3	305.5	+24.0	23	110
17752	.807	247.6	285.6	−18.1	34	160
17757	.551	324.8	254.8	+26.4	35	554
17758	.485	209.3	249.2	−25.2	55	319
17761	.292	186.8	236.2	−17.1	13	77
17763	.344	158.1	226.3	−18.8	254	1453
17765	.466	142.2	216.3	−21.8	43	175
17766	.449	129.9	213.1	−17.0	14	131
17768	.663	106.9	194.2	−11.3	3	14
17769	.829	119.9	182.1	−24.5	33	276
17770	.871	58.3	178.0	+27.0	4	19
Dec.10.484		(+12.2)	(218.5)	(− 0.4)		
17752	.934	251.0	286.4	−17.9	25	67
1381c	.851	283.5	275.8	+11.2	2	9
17756	.675	302.4	256.1	+21.4	16	86
17757	.691	310.4	254.3	+26.2	37	433
17758	.622	227.4	248.8	−25.1	55	285
17761	.429	223.8	236.6	−18.3	8	29
17763	.344	200.0	225.6	−19.2	222	1324
17765	.367	176.8	216.2	−21.8	22	103
17766	.301	160.7	212.6	−16.9	20	133
17771	.487	23.2	206.2	+26.1	1	5
17768	.503	111.3	190.1	−10.8	4	33
17769	.694	126.8	180.9	−24.8	103	663
17770	.767	52.8	175.2	+27.3	12	53
Dec.11.283		(+11.8)	(208.0)	(− 0.5)		
17756	.789	298.1	256.2	+21.4	66	276
17757	.782	305.4	253.3	+26.6	49	436

continued

Group 17764. Dec. 5 - 6. A pair of tiny spots on December 5; a single spot on December 6.
Group 17765. Dec. 5 - 16. A regular spot, with a number of small variable companions until December 13.
Group 17766. Dec. 5 - 16. A regular spot, with a small preceding companion until December 9.
Group 17767. Dec. 6 - 16. One or two tiny spots until December 8. Nothing is then seen until December 11, when a small stream appears.
Group 17768. Dec. 8 - 15. One or two tiny spots, not seen on December 11.
Group 17769. Dec. 8 - 19. A long stream, of which the leading portion at first consists of several small spots which soon begin to coalesce, forming a fair-sized composite spot by December 16. The follower is regular in outline until December 15, after which it breaks up.
Group 17770. Dec. 8 - 19. A few small spots until December 12. From then on there is an unstable stream.
Group 17771. Dec. 10 - 13. A tiny spot, seen only on December 10 and 13.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Dec.11.283	*continued*					
17758	.728	234.4	248.7	−25.3	58	298
17761	.512	234.9	233.9	−17.5	5	49
17763	.431	220.6	225.2	−19.5	242	1324
17765	.393	200.8	216.6	−22.0	36	226
17767	.228	211.4	214.9	−11.7	19	141
17766	.296	193.6	212.2	−17.1	23	115
17769	.592	135.5	180.8	−25.3	111	865
17770	.659	45.6	176.2	+26.9	11	85
17772	.982	105.3	129.4	−15.1	0	44
Dec.12.282		(+11.4)	(194.8)	(− 0.6)		
17756	.905	295.1	257.0	+22.3	17	128
17757	.878	301.4	251.7	+26.8	82	602
17758	.841	240.2	248.2	−25.0	44	268
17761	.652	245.7	232.8	−16.0	3	32
17763	.577	235.7	225.0	−19.4	168	1248
17765	.498	223.8	216.5	−21.5	36	271
17767	.399	240.8	215.6	−11.8	23	190
17766	.398	224.6	211.7	−17.0	16	103
17768	.172	183.4	195.4	−10.4	1	12
17769	.474	151.2	180.3	−25.0	124	885
17770	.530	29.5	177.9	+26.8	5	33
17773	.444	131.3	174.4	−17.5	0	8
17774	.705	124.8	155.6	−24.1	4	24
17772	.917	106.3	129.3	−15.1	7	36
Dec.13.389		(+10.9)	(180.2)	(− 0.8)		
17756	.977	293.0	256.2	+22.2	0	46
17758	.935	243.4	247.3	−25.0	24	213
17757	.957	298.9	250.5	+27.3	26	164
17761	.825	251.3	234.3	−15.8	4	18
17763	.738	243.4	224.6	−19.8	155	1072
17765	.668	237.5	217.3	−21.6	32	200
17767	.609	250.6	216.1	−12.3	22	206
17766	.573	239.9	211.3	−17.3	16	101
17771	.601	317.5	206.8	+25.5	0	7
17768	.307	238.7	195.6	− 9.9	2	28
17775	.440	214.3	195.6	−22.0	7	27
17776	.340	213.3	191.4	−17.2	2	14
17769	.406	181.7	181.0	−24.6	182	1164
17770	.476	7.8	176.0	+27.3	20	126
17774	.550	136.8	155.9	−24.3	3	20
1381d	.798	70.3	129.3	+15.1	0	3
17772	.803	109.8	128.5	−16.2	7	38
17777	.941	113.9	111.6	−22.7	3	19

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Dec.14.280		(+10.5)	(168.5)	(− 0.9)		
17758	.984	244.7	247.2	−25.0	36	356
17761	.913	252.9	233.4	−15.9	2	16
17763	.846	246.5	224.0	−20.1	163	984
17767	.771	253.5	217.7	−13.2	24	222
17765	.790	242.3	217.3	−22.1	34	157
17766	.709	245.7	211.0	−17.6	11	74
17775	.577	232.7	197.9	−21.2	5	10
17768	.483	248.5	195.6	−11.0	2	14
17776	.468	230.5	190.7	−18.1	0	5
17769	.448	203.1	179.6	−25.1	123	1024
17770	.488	346.7	175.7	+27.3	25	163
17778	.714	128.6	129.8	−27.1	3	15
17772	.669	112.7	128.8	−15.6	3	13
17777	.894	113.7	107.2	−21.4	2	9
17779	.993	75.8	86.1	+13.9	0	155
Dec.15.283		(+10.1)	(155.3)	(− 1.0)		
17761	.984	254.1	234.6	−15.8	16	137
17763	.938	248.6	223.7	−20.4	152	934
17767	.898	255.5	218.4	−13.4	20	145
17765	.901	245.1	217.4	−22.7	28	166
17766	.842	249.1	210.8	−17.9	9	62
17775	.729	240.8	198.3	−21.5	6	18
17768	.687	255.8	197.7	−10.4	1	13
17776	.643	243.4	192.2	−17.5	5	14
17780	.673	306.5	191.1	+22.7	15	103
17769	.567	224.0	180.9	−24.9	95	1138
17770	.573	326.6	176.0	+27.5	26	182
17778	.590	139.1	129.6	−27.3	5	29
17772	.504	120.7	128.7	−15.7	5	9
17781	.968	112.9	80.9	−22.3	8	29
17779	.974	74.9	79.4	+14.4	141	886
17782	.975	115.7	79.3	−25.2	33	170
Dec.16.324		(+ 9.6)	(141.5)	(− 1.1)		
17763	.991	249.1	223.5	−20.9	90	478
17765	.971	246.7	216.8	−22.9	27	197
17767	.965	256.2	215.9	−13.6	15	83
17766	.940	251.0	210.6	−18.2	6	19
17780	.822	298.6	192.6	+22.4	7	44
17776	.792	250.1	192.2	−16.3	2	12
17769	.713	236.7	182.0	−23.8	168	1260
17770	.686	313.3	175.5	+27.1	39	224
17772	.334	139.4	128.5	−15.7	2	9
17779	.888	73.6	80.3	+13.9	190	1223
17782	.905	117.0	79.1	−24.7	34	169
17781	.906	114.4	78.5	−22.5	5	39

Group 17772. Dec. 11 - 18. A small spot.
Group 17773. Dec. 12 - 18. Intermittent. A pair of tiny spots on December 12; a single spot on December 18.
Group 17774. Dec. 12 - 13. A pair of tiny spots.
Group 17775. Dec. 13 - 15. A pair of spots on December 13 and 15; a single spot on December 14.
Group 17776. Dec. 13 - 18. One or two tiny spots.
Group 17777. Dec. 13 - 14. A small spot.
Group 17778. Dec. 14 - 15. A small spot.
Group 17779. Dec. 14 - 26. A stream, which at first consists of two composite spots. The leader finally becomes regular in outline and is the only survivor at the limb. The rear portion, stable until December 1, then quickly disintegrates.
Group 17780. Dec. 15 - 17. A small group, appearing near the west limb.
Group 17781. Dec. 15 - 18. A single spot on December 15 and 16; a pair on the other days.
Group 17782. Dec. 15 - 28. A small regular spot, with some close companions between December 20 and 24. On the next day a stream appears which becomes a large composite spot as it passes from view.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Dec.17.522		(+9.0)	(125.8)	(− 1.3)		
17776	.922	252.7	192.2	−16.4	5	17
17780	.931	294.7	191.7	+22.3	11	68
17769	.858	241.8	181.9	−24.6	219	1401
17770	.821	305.5	174.5	+27.5	38	202
17783	.521	317.7	147.8	+21.3	10	47
17772	.255	192.0	128.9	−15.7	0	7
17784	.275	142.6	115.9	−13.8	0	2
17779	.740	70.0	80.3	+13.7	174	1292
17782	.779	121.4	78.9	−24.8	30	152
17781	.781	117.3	77.6	−21.8	10	50
17785	.805	124.8	77.4	−28.2	2	7
17786	.929	52.3	63.5	+34.0	5	25
17787	.960	115.4	53.5	−24.6	7	30
Dec.18.285		(+8.7)	(115.7)	(− 1.4)		
17776	.973	253.1	191.9	−16.7	4	17
17769	.925	243.4	181.3	−25.0	169	1532
17773	.873	248.7	174.9	−19.1	0	8
17770	.889	301.9	173.6	+27.3	47	231
17783	.626	307.3	147.8	+21.0	6	26
17772	.336	221.6	129.0	−15.8	2	5
17779	.616	65.5	80.6	+13.6	195	1498
17782	.685	125.9	78.2	−24.7	22	172
17785	.707	130.5	78.2	−28.4	4	18
17781	.675	121.7	77.7	−21.8	5	20
17786	.870	49.5	63.4	+33.5	6	20
17787	.906	116.7	53.0	−24.6	5	25
Dec.19.593		(+8.1)	(98.5)	(− 1.6)		
17769	.988	244.1	179.0	−25.8	54	366
17770	.967	299.0	170.7	+27.5	7	128
17783	.788	298.8	146.1	+21.2	3	11
17784	.383	235.4	117.4	−14.0	2	11
17779	.397	48.0	80.9	+13.8	182	1286
17785	.541	148.0	79.5	−28.7	1	8
17782	.512	140.5	77.6	−24.6	37	172
17787	.764	121.0	52.8	−24.2	3	10
17788	.922	72.8	29.8	+15.1	0	5
17789	.978	106.0	20.9	−16.0	105	780
17790	.992	73.3	16.8	+16.3	84	451
Dec.20.281		(+7.8)	(89.4)	(− 1.7)		
17779	.310	31.8	79.8	+13.5	177	1184
17782	.441	152.6	76.6	−24.6	31	175
17787	.671	125.6	52.8	−24.3	1	9
17788	.850	71.1	33.3	+15.0	0	8
17789	.931	106.6	21.5	−16.0	165	973
17790	.969	72.9	15.2	+16.1	115	695
Dec.21.496		(+7.2)	(73.4)	(− 1.8)		
17779	.294	337.0	80.2	+13.8	175	1117
17782	.391	186.0	76.0	−24.6	29	187
1381e	.590	154.3	55.6	−33.6	2	11
17787	.500	139.6	52.7	−24.0	2	9
17791	.745	156.2	48.6	−44.4	7	23
17792	.529	63.6	44.6	+11.9	4	15
17789	.803	108.4	21.2	−15.8	189	1058
17790	.855	70.0	16.9	+16.0	98	639
17793	.964	74.3	0.1	+14.6	24	152
17794	.966	70.2	0.1	+18.6	52	743
Dec.22.284		(+6.8)	(63.0)	(− 1.9)		
17779	.397	311.5	80.7	+13.4	162	902
17782	.436	206.8	75.4	−24.6	40	191
17787	.407	155.3	52.4	−23.5	2	25
17791	.710	164.6	47.6	−44.8	3	18
17792	.385	48.6	45.9	+12.8	27	168
17789	.688	111.4	21.4	−15.9	161	1076
17790	.756	66.5	17.0	+16.1	96	617
17794	.898	67.8	1.8	+18.8	87	680
17793	.899	72.2	0.8	+15.0	33	349
Dec.23.302		(+6.3)	(49.6)	(− 2.0)		
17779	.560	298.4	79.9	+13.7	117	765
17782	.555	224.5	74.9	−25.0	31	140
17795	.590	343.3	61.1	+32.3	7	42
17791	.673	179.4	49.0	−44.1	18	71
17792	.257	10.6	46.8	+12.5	38	235
17789	.522	118.7	21.2	−16.2	191	1136
17790	.604	58.9	17.1	+16.4	113	637
17794	.787	63.5	1.6	+19.1	58	717
17793	.784	70.0	0.3	+14.2	40	226
17796	.971	109.6	333.8	−19.4	0	16
17797	.989	55.3	331.6	+33.8	69	384

Group 17783. Dec. 17 - 19. Two or three small spots.
Group 17784. Dec. 17 - 19. Intermittent. A tiny spot on December 17; a pair on December 19.
Group 17785. Dec. 17 - 19. A tiny spot.
Group 17786. Dec. 17 - 18. A pair of tiny spots.
Group 17787. Dec. 17 - 28. A small spot, not seen on December 23, which on December 24 becomes a stream.
Group 17788. Dec. 19 - 20. A tiny spot.
Group 17789. Dec. 19 - 31. A bi-polar group. The leader remains a regular spot, while the follower becomes composite and the larger component. After December 28 the group begins to break up rapidly.
Group 17790. Dec. 19 - 31. A stable regular spot with a few small close companions until December 28.
Group 17791. Dec. 21 - 26. A string of small changing spots in high southern latitude.
Group 17792. Dec. 21 - 28. A pair of spots, of which only one remains at the west limb.
Group 17793. Dec. 21 - 31. A small regular spot, with some close companions until December 26.
Group 17794. Dec. 21 - 30. A pair of composite spots which disintegrate and die out before reaching the limb.
Group 17795. Dec. 23 - 26. A pair of small spots on December 23 and 24; a single spot on the other days.
Group 17796. Dec. 23 - 29. Intermittent. One or two small spots.
Group 17797. Dec.23-1957 Jan.4. A stable regular spot, with small distant companions until 1957 January 1.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Dec.24.284		(+5.9)	(36.7)	(− 2.2)		
17779	.723	291.3	80.4	+13.6	106	613
17782	.679	233.6	73.8	−25.4	21	105
17795	.656	328.7	60.3	+31.9	8	38
17787	.442	216.7	53.3	−22.8	2	8
17791	.688	191.6	47.8	−44.3	9	43
17792	.315	326.4	47.0	+13.0	38	246
17789	.358	134.1	21.2	−16.5	185	1020
17790	.444	45.0	17.7	+16.1	129	650
17794	.657	57.3	1.1	+18.9	52	461
17793	.632	64.8	0.8	+13.8	28	166
17796	.901	110.6	333.5	−19.4	0	9
17797	.955	53.5	329.5	+33.7	96	570
17798	.958	66.3	325.9	+21.9	0	14
Dec.25.392		(+5.3)	(22.1)	(− 2.3)		
17779	.869	287.3	80.5	+13.8	75	528
17782	.768	236.9	67.8	−26.4	65	361
17795	.776	316.3	61.3	+32.3	3	17
17787	.625	234.7	55.6	−23.0	27	125
17791	.742	208.1	50.8	−43.6	2	13
17792	.502	302.3	47.9	+13.4	27	174
17789	.249	173.7	20.5	−16.6	175	1005
17790	.323	13.2	17.7	+15.5	121	590
17794	.498	43.5	0.9	+19.0	41	349
17793	.459	53.1	0.0	+13.8	28	179
17797	.876	48.9	329.8	+33.7	103	471
Dec.26.394		(+4.8)	(8.9)	(− 2.4)		
17779	.965	285.3	82.3	+14.1	69	427
17782	.876	241.2	67.5	−26.2	115	831
17795	.868	309.6	60.9	+32.1	2	11
17787	.756	241.6	54.8	−22.6	50	283
17792	.682	293.1	48.9	+13.6	15	123
17791	.793	210.1	43.1	−45.2	3	33
17789	.312	216.6	20.1	−16.8	133	1002
17790	.343	335.2	17.5	+15.7	118	561
17794	.362	17.6	2.3	+17.7	37	227
17793	.308	28.3	0.3	+13.3	15	102
1381f	.367	151.6	358.2	−21.1	0	7
17797	.792	42.6	328.9	+33.7	97	472
17799	.959	64.2	298.5	+23.8	16	71
Dec.27.484		(+4.3)	(354.5)	(− 2.5)		
17782	.954	242.7	65.9	−26.7	85	964
17787	.869	245.1	53.0	−22.8	23	167
17792	.857	287.7	51.4	+13.7	11	101
17789	.480	238.6	19.7	−16.7	125	897
17790	.489	309.3	17.5	+15.7	118	561
					continued	

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Dec.27.484	*continued*					
17794	.364	339.1	2.3	+17.3	22	237
17793	.282	339.7	0.2	+12.8	11	58
17800	.332	151.1	344.8	−19.3	1	5
17796	.451	127.3	332.4	−18.1	1	3
17797	.698	31.3	328.6	+34.3	94	472
17799	.872	60.6	298.5	+23.9	13	74
17801	.885	69.8	294.7	+16.6	2	14
17802	.937	110.9	285.8	−20.4	55	347
17803	.987	70.5	275.4	+18.8	40	234
Dec.28.314		(+3.9)	(343.6)	(− 2.6)		
17782	.988	243.0	64.7	−27.1	41	472
17787	.950	246.8	54.6	−22.8	29	138
17792	.940	285.6	52.1	+13.7	12	72
17789	.618	245.8	19.5	−16.7	113	769
17790	.624	299.7	17.7	+15.8	120	526
17794	.448	320.3	1.0	+17.6	15	119
17793	.386	313.7	0.2	+12.9	11	63
17800	.293	184.4	345.0	−19.5	1	7
1382a	.773	11.0	331.2	+46.6	6	20
17797	.647	20.5	327.7	+34.6	86	425
17804	.504	112.8	315.2	−13.5	0	5
17805	.803	49.5	299.2	+29.5	10	47
17799	.786	56.3	298.1	+24.0	11	68
17801	.794	66.4	294.3	+16.8	9	46
17802	.867	112.3	284.9	−20.5	43	346
a	.844	112.5	287.6	−20.2	25	167
b	.887	111.9	282.3	−20.5	18	179
17803	.948	68.4	274.6	+19.4	57	600
17806	.969	125.9	269.8	−35.3	0	26
Dec.29.403		(+3.4)	(329.2)	(− 2.8)		
17789	.787	251.3	19.9	−16.3	124	619
17790	.783	292.4	17.6	+15.4	142	573
1382b	.755	244.0	15.7	−21.2	2	10
17794	.599	304.9	0.1	+17.6	5	42
17793	.563	297.9	359.7	+12.8	16	67
17796	.285	197.6	334.4	−18.5	6	38
17798	.413	5.2	326.9	+21.3	2	31
17797	.611	3.4	326.7	+34.6	84	448
17804	.263	128.6	317.1	−12.1	4	33
17805	.691	40.0	298.6	+29.5	40	194
17799	.652	47.3	297.8	+23.8	10	54
17801	.646	59.2	293.9	+17.0	9	42
17802	.727	115.6	285.0	−20.3	53	396
a	.700	116.6	287.5	−20.3	36	217
b	.767	114.8	281.4	−20.5	17	179
17803	.865	64.7	273.0	+20.1	117	704
17806	.897	128.3	269.9	−35.2	7	24

Group 17798. Dec. 24 - 29. A small spot, seen only on December 24 and 29.
Group 17799. Dec.26-1957 Jan.6. A small regular spot until December 31. On the next day a stream of small spots develops in its place.
Group 17800. Dec. 27 - 28. A tiny spot.
Group 17801. Dec. 27 - 30. One or two small spots.
Group 17802. Dec.27-1957 Jan.8. A small bi-polar group.
Group 17803. Dec.27-1957 Jan.9. A large stream, of which the intermediate spots grow and gradually coalesce with the leader to form a large composite spot, which is the only surviving component at the limb.
Group 17804. Dec.28-1957 Jan.5. A few small spots.
Group 17805. Dec.28-1957 Jan.6. A stream of small unstable spots.
Group 17806. Dec. 28 - 30. One or two tiny spots.

POSITIONS AND AREAS OF SUNSPOTS FOR EACH DAY IN THE YEAR

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Dec.30.309		(+3.0)	(317.3)	(− 2.9)		
17789	.890	253.0	19.6	−16.4	74	463
17790	.890	289.2	17.9	+15.6	113	554
17794	.767	297.8	2.9	+18.8	2	18
17793	.707	291.8	359.5	+13.0	10	44
17797	.623	348.4	326.0	+34.5	81	447
17807	.616	3.8	314.5	+34.9	5	38
17804	.160	157.8	313.8	−11.4	2	16
17805	.610	28.4	297.9	+29.6	21	129
17799	.545	34.8	297.5	+23.8	8	43
17801	.546	50.0	291.3	+17.9	0	5
17802	.588	121.3	285.1	−20.2	41	239
a	.560	123.3	287.5	−20.4	23	138
b	.641	119.0	280.7	−20.4	18	98
17803	.763	60.0	272.7	+20.3	117	726
17806	.816	132.0	269.7	−35.0	7	33
17808	.935	60.8	253.3	+25.9	0	17
17809	.985	105.5	237.0	−15.8	0	50

U.T. and Group No.	Measures Rad. Dist.	Measures Pos. Ang.	Position Long.	Position Lat.	Area Unb.	Area Whole Spots
1956		°	°	°		
Dec.31.283		(+2.5)	(304.5)	(− 3.0)		
17789	.972	254.7	21.0	−15.6	52	415
17790	.963	287.5	17.1	+16.0	128	562
17793	.836	287.8	359.1	+13.1	9	56
17797	.674	334.1	325.3	+34.3	94	445
17804	.248	231.0	315.8	−11.9	1	9
17807	.626	348.9	312.9	+34.8	1	8
17805	.540	11.0	297.8	+28.9	15	60
17799	.469	14.9	296.9	+23.9	7	32
17802	.460	131.3	283.0	−20.4	29	157
a	.415	137.8	287.2	−20.7	12	53
b	.493	128.3	280.2	−20.5	17	104
17803	.626	52.1	272.9	+20.0	129	946
17808	.840	54.1	254.6	+27.5	2	9
17809	.929	106.1	236.5	−16.1	11	100
17810	.991	109.9	221.9	−20.1	47	408

Group 17807. Dec.30-1957 Jan. 5. A small spot, with a companion on 1957 January 1.
Group 17808. Dec.30-1957 Jan. 9. A small spot not seen on 1957 January 5 and 6.
Group 17809. Dec.30-1957 Jan. 5. Two or three small spots.
Group 17810. Dec.31-1957 Jan.12. A regular spot, with a small distant companion on 1957 January 5 and 6.

GENERAL CATALOGUE

OF SUNSPOTS

FOR THE YEAR 1956

GENERAL CATALOGUE OF GROUPS OF SUNSPOTS FOR THE YEAR 1956

Groups of sunspots, lasting for two or more days, are numbered in the *first* column in continuation of the group numbers given in the *Greenwich Photo-Heliographic Results* for 1955 and previous years. 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 76.

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 $0^{d}.01$, corresponding to $0^{\circ}.13$ of solar longitude. In other cases, in which groups disappear before or appear after the central meridian, the deduced time is given to $0^{d}.1$.

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 umbrae 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.

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 *forwards*.	Latitude	Drift *backwards*.
0°	5°	20°	3°
5°	4.5	25°	7.5
10°	3	30°	12.5
15°	0.5	35°	18

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen Date	First Seen Long. from C.M.	Last Seen Date	Last Seen Long. from C.M.	Corrected Mean Area Umbræ	Corrected Mean Area Whole Spots	Mean Position Long.	Mean Position Lat.	Reference
	1956	d	1956	°	1956	°			°	°	
17319	Jan. 1.8	3	Jan. 3	+20	Jan. 5	+50	2	13	75.2	+25.6	
17320	2.8	2	3	+ 8	4	+25	0	7	62.6	+27.4	
21	5.47	7	3	-28	9	+53	8	47	26.9	-17.9	
22	4.4	4	4	+ 4	7	+36	6	34	40.6	-26.8	
23	9.12	5/10	4	-60	13	+56	2	13	338.8	-23.8	
24	11.03	7/10	6	-60	15	+58	4	22	313.7	-16.7	
17325	12.45	13	6	-77	18	+77	19	114	295.0	+22.9	1678 (2)
26	12.43	12	7	-72	18	+81	33	174	295.3	-25.2	
27	2.9	2	8	+74	9	+84	7	23	60.3	-24.4	
28	15.44	11	9	-76	19	+46	20	105	255.7	-29.5	
29	19.24	12	13	-75	24	+70	77	435	205.5	+27.8	
17330	19.54	13	13	-79	25	+75	82	450	201.7	+23.6	1679 (1)
31	20.47	13	14	-79	26	+76	289	1582	189.4	+19.9	1680 (1)
32	10.3	2	15	+68	16	+81	18	65	322.8	-26.5	
33	23.0	5	17	-72	21	-22	12	57	156.1	+24.8	
34	23.85	14	17	-80	30	+82	106	578	144.8	+25.0	1681 (1)
17335	19.77	2	19	- 2	20	+ 8	2	14	198.6	-20.4	
36	28.67	12	22	-87	Feb. 2	+62	35	192	81.4	-17.6	
37	27.39	3/9	23	-56	Jan. 31	+52	1	10	98.3	+33.4	
38	25.8	2	24	-18	25	- 6	2	12	118.9	+37.2	
39	29.46	11/12	24	-64	Feb. 4	+78	19	129	71.1	+24.6	1682 (1)
17340	Feb. 4.63	9	29	-82	6	+20	12	51	349.8	-36.0	
41	4.91	8	30	-76	6	+19	9	38	346.1	-18.8	
42	6.55	11	31	-77	10	+54	49	291	324.6	+29.8	
43	3.86	4	Feb. 1	-33	4	+ 8	6	39	0.0	+25.0	
44	6.7	3/4	1	-67	4	-31	0	2	322.8	-26.8	
17345	2.6	2	3	+11	4	+23	0	8	16.0	+23.6	
46	12.61	11	6	-82	16	+48	11	60	244.8	-16.0	
47	9.80	2	9	- 7	10	+ 8	14	64	281.8	+20.8	
48	16.0	2	10	-75	11	-61	1	23	199.6	+18.8	
49	16.30	13	10	-76	22	+80	59	289	196.1	+22.1	1679 (2)
17350	16.00	11	11	-59	21	+72	11	64	200.1	-19.6	
51	17.29	13	11	-75	23	+76	225	1437	183.1	+21.6	1680 (2)
52	18.58	11	12	-79	22	+50	103	498	166.0	+20.0	
53	19.07	15	12	-83	26	+86	162	883	159.7	-21.7	1683 (1)
54	19.21	13	13	-75	25	+82	39	217	157.8	+17.9	
17355	18.16	11	14	-48	24	+76	123	771	171.6	+20.3	1684 (1)
56	20.66	13	14	-77	26	+73	114	647	138.7	+22.5	
57	20.99	14	14	-86	27	+82	97	485	134.3	-20.3	
58	11.5	2	15	+51	16	+64	2	11	259.6	+24.1	
59	20.77	12	15	-70	26	+72	24	119	137.2	+25.4	1681 (2)
17360	12.6	2	16	+50	17	+61	1	8	244.5	+17.4	
61	24.98	9	19	-73	27	+32	6	26	81.8	-20.6	
62	25.20	13	19	-74	Mar. 2	+79	81	450	79.0	+23.7	
63	26.07	6/10	21	-61	1	+54	8	41	67.4	-24.8	
64	26.60	11	21	-65	2	+59	24	112	60.5	+23.8	1682 (2)

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen Date	First Seen Long. from C.M.	Last Seen Date	Last Seen Long. from C.M.	Corrected Mean Area Umbræ	Corrected Mean Area Whole Spots	Mean Position Long.	Mean Position Lat.	Reference
	1956	d	1956	°	1956	°			°	°	
17365	Feb. 27.61	10/11	Feb. 21	-78	Mar. 2	+52	16	92	47.2	-29.3	
66	26.9	4	22	-58	Feb. 25	-21	4	23	57.0	+18.3	
67	29.1	5/6	23	-75	28	- 7	6	24	27.9	-17.0	
68	24.04	7	24	+ 2	Mar. 1	+84	8	46	94.2	-21.7	
69	Mar. 1.28	11	25	-66	6	+67	11	67	12.0	+22.2	
17370	1.9	3	25	-73	Feb. 27	-46	3	15	4.1	-20.8	
71	3.22	13	26	-78	Mar. 9	+82	26	142	346.5	-16.5	
72	Feb. 29.15	6	27	-23	3	+42	7	37	26.9	-26.5	
73	Mar. 4.00	13	27	-75	10	+78	60	348	336.2	+24.3	
74	Feb. 26.3	5	28	+30	3	+74	38	214	64.0	+16.2	
17375	Mar. 4.63	13	28	-69	11	+87	122	688	327.9	-23.4	
76	6.7	6	Mar. 1	-66	6	- 7	7	35	301.1	+31.1	
77	5.07	8	3	-23	10	+70	30	154	322.1	+17.9	
78	10.42	12	4	-72	15	+65	49	275	251.6	+33.9	
79	8.02	8	7	-10	14	+85	22	115	283.3	-16.7	
17380	13.4	2	7	-75	8	-69	0	12	212.2	-25.5	
81	11.33	8	8	-39	15	+50	7	37	239.6	+25.7	
82	14.9	3/4	9	-72	12	-34	4	21	192.6	+20.0	1679 (3)
83	15.6	7	9	-81	15	- 3	4	13	183.7	-18.1	
84	15.2	4	11	-51	14	-11	0	14	188.1	+42.0	
17385	17.24	13	11	-75	23	+78	149	945	161.7	+20.7	1684 (2)
86	17.39	13	11	-77	23	+78	82	409	159.7	-20.8	1683 (2)
87	19.6	7	13	-80	19	- 2	13	55	131.2	+23.5	1681 (3)
88	19.64	13	13	-82	25	+77	35	166	130.1	-20.1	1685 (1)
89	15.33	4	14	-13	17	+27	6	32	186.8	+17.1	
17390	16.11	4	14	-25	17	+20	2	9	176.6	+22.8	
91	19.5	2	15	-56	16	-40	4	15	131.6	-24.9	
92	20.43	10	15	-67	24	+52	14	60	119.6	+17.9	
93	20.2	2	16	-49	17	-38	8	22	122.8	+27.9	
94	21.44	10	18	-41	27	+75	53	295	106.3	+18.2	1686 (1)
17395	22.23	8/10	18	-48	27	+63	4	30	95.9	+26.1	
96	23.3	4	18	-64	21	-26	2	12	82.2	+25.4	
97	23.95	9	18	-73	26	+32	8	42	73.3	+16.1	
98	25.31	13	19	-72	31	+75	59	361	55.3	+31.6	1687 (1)
99	27.01	9	20	-82	28	+17	25	154	33.0	-29.9	
17400	26.58	9	21	-70	29	+38	11	52	38.5	-24.9	
01	28.00	8	22	-73	29	+13	1	12	19.8	+22.0	
02	28.46	11	22	-81	Apr. 1	+55	18	124	13.8	-24.9	
03	19.9	2	24	+58	Mar. 25	+74	28	126	126.1	+21.8	
04	30.52	12	24	-81	Apr. 4	+64	20	115	346.6	-16.7	
17405	23.0	5	25	+32	Mar. 29	+82	30	136	85.4	-24.5	
06	29.52	11	25	-53	Apr. 4	+75	35	190	359.7	+26.1	
07	Apr. 1.31	10	26	-77	4	+40	20	98	322.9	-23.0	
08	Mar. 25.5	3	29	+51	Mar. 31	+81	24	115	53.0	-17.3	
09	26.8	3	30	+47	Apr. 1	+78	14	53	36.1	-21.7	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen Date	First Seen Long. from C.M.	Last Seen Date	Last Seen Long. from C.M.	Corrected Mean Area Umbræ	Corrected Mean Area Whole Spots	Mean Position Long.	Mean Position Lat.	Reference
	1956	d	1956	°	1956	°			°	°	
17410	Apr. 4.80	6/7	Mar. 30	-67	Apr. 5	+ 9	7	27	276.9	+18.6	
11	Mar. 28.7	3	31	+36	2	+68	5	24	10.8	+21.3	
12	Apr. 6.8	2	Apr. 2	-53	3	-47	3	20	250.4	+21.2	
13	8.42	12	2	-66	13	+55	48	252	229.2	+33.5	
14	8.2	3	2	-74	4	-51	5	27	231.6	-15.6	
17415	9.89	4/8	4	-71	11	+16	2	7	209.8	+18.8	
16	11.16	13	5	-70	17	+82	80	466	193.0	+23.8	1688 (1)
17	12.86	7/12	7	-72	18	+71	3	13	170.5	+17.4	
18	14.15	14	7	-89	20	+80	46	223	153.6	-21.0	1683 (3)
19	14.30	13	8	-76	20	+78	21	100	151.5	+20.4	1684 (3)
17420	13.7	5	9	-59	13	- 3	4	18	159.1	+22.6	
21	15.61	14	9	-82	22	+82	78	399	134.2	-20.2	1685 (2)
22	8.9	4	10	+20	13	+56	4	16	222.4	-19.4	
23	15.72	12	10	-70	21	+75	37	177	132.7	+12.8	
24	16.60	14	10	-79	23	+85	64	364	121.1	-31.7	
17425	17.06	12	11	-80	22	+74	24	124	115.1	+18.6	1686 (2)
26	17.94	9	11	-87	19	+19	9	64	103.5	-35.6	
27	14.11	8/9	12	-21	20	+77	21	122	154.0	+31.7	
28	18.4	7	12	-81	18	- 1	9	38	97.3	-23.7	
29	14.36	2	14	- 2	15	+16	1	8	150.7	-29.0	
17430	18.00	3	16	-22	18	+ 5	2	15	102.7	+20.4	
31	21.60	4/7	16	-70	22	+11	2	9	55.1	+31.5	
32	22.23	8	16	-81	23	+16	9	36	46.7	+11.6	
33	15.7	5	17	+23	21	+74	26	141	133.5	+34.2	
34	20.82	2/6	17	-46	22	+20	0	4	65.4	+25.7	
17435	22.38	12	17	-66	28	+75	65	354	44.8	+24.4	
36	22.73	10	17	-70	26	+46	28	144	40.1	+32.6	1687 (2)
37	20.84	4	18	-33	21	+ 5	4	15	65.1	-15.4	
38	15.2	3	19	+54	21	+79	16	83	139.4	-29.9	1689 (1)
39	24.9	6	19	-76	24	- 8	11	35	11.1	-24.4	
17440	25.38	13	19	-82	May 1	+83	22	117	5.2	+16.3	
41	16.8	4	20	+49	Apr. 23	+82	15	75	118.0	-23.8	
42	26.1	4	20	-76	23	-36	4	17	355.9	-19.6	
43	23.33	8	21	-24	28	+69	8	35	32.2	-26.6	
44	28.56	13	22	-77	May 4	+69	25	137	323.1	+23.1	
17445	20.9	3	23	+32	Apr. 25	+60	6	20	65.0	+19.8	
46	29.4	4	23	-78	26	-42	5	28	311.8	-26.2	
47	28.59	9	26	-32	May 4	+81	27	157	322.7	-14.8	1690 (1)
48	May 2.91	7	30	-34	6	+43	21	103	265.6	-16.6	
49	5.85	13	30	-73	12	+84	36	194	226.8	-18.9	
17450	6.61	13	30	-80	12	+79	145	847	216.8	+16.2	1691 (1)
51	6.23	6	May 1	-64	6	+ 3	8	32	221.7	+23.7	
52	2.46	7	2	- 3	8	+78	23	119	271.7	-26.9	1692 (1)
53	7.83	10	2	-74	11	+52	23	101	200.6	+17.4	
54	4.22	3	3	-11	5	+15	5	29	248.4	-10.7	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen Date	First Seen Long. from C.M.	Last Seen Date	Last Seen Long. from C.M.	Corrected Mean Area Umbræ	Corrected Mean Area Whole Spots	Mean Position Long.	Mean Position Lat.	Reference
	1956	d	1956	°	1956	°			°	°	
17455	May 8.57	12	May 3	-68	May 14	+76	52	315	190.9	+18.4	
56	9.21	13	3	-74	15	+78	53	272	182.4	+24.8	1688 (2)
57	10.6	2	5	-69	6	-56	0	5	164.5	+16.0	
58	11.89	14	5	-84	18	+84	20	106	147.0	-18.9	1683 (4)
59	12.64	13	6	-81	18	+75	18	98	137.0	-20.5	1685 (3)
17460	9.6	3	7	-29	9	- 4	2	14	176.6	+14.4	
61	9.70	5	7	-32	11	+27	4	19	175.9	-27.3	
62	13.0	4	7	-72	10	-37	11	79	132.2	-30.8	1689 (2)
63	11.22	10	8	-39	17	+82	48	286	155.7	-14.4	
64	13.88	7	8	-74	14	+ 3	4	21	120.7	+16.9	1686 (3)
17465	14.92	9/12	8	-81	19	+55	6	35	106.8	-28.9	
66	16.10	13	10	-75	22	+81	66	339	91.3	-20.6	
67	14.94	11	11	-41	21	+79	114	690	106.6	+29.8	
68	14.0	5	15	+18	19	+69	9	56	119.2	+21.1	
69	20.55	12	15	-69	26	+78	29	164	32.4	+25.6	1693 (1)
17470	22.40	13	16	-78	28	+78	53	306	7.9	-23.9	1694 (1)
71	15.9	6	17	+22	22	+78	32	173	93.8	+24.7	
72	14.5	3	18	+53	20	+76	11	60	112.3	-24.9	
73	16.4	4	18	+26	21	+66	16	93	87.8	-28.0	1695 (1)
74	19.32	2/6	18	-13	23	+53	0	2	48.6	+30.3	
17475	24.5	6	18	-81	23	-16	7	33	339.9	-18.2	
76	25.09	13	19	-77	31	+78	120	684	332.3	-20.5	1696 (1)
77	25.2	4	20	-65	23	-26	3	13	330.3	-14.6	1690 (2)
78	18.9	4	21	+34	24	+70	12	61	53.6	+37.1	
79	26.50	8	24	-31	31	+67	10	50	313.6	-21.9	
17480	30.0	2	24	-75	25	-62	2	14	267.8	-25.1	1692 (2)
81	30.72	10	25	-70	June 3	+47	9	45	257.8	-16.0	
82	June 1.09	13	26	-76	7	+84	108	591	239.7	-14.9	1697 (1)
83	1.0	4	27	-61	May 30	-26	9	42	240.3	+31.4	
84	2.94	12	28	-73	June 8	+69	25	130	215.2	+16.8	1691 (2)
17485	3.38	13	28	-80	9	+79	141	874	209.4	+22.9	
86	May 26.8	2	30	+46	May 31	+61	4	22	310.4	+22.9	
87	June 6.42	13	31	-77	June 12	+74	25	132	169.2	+25.4	1688 (3)
88	8.07	8	June 2	-75	9	+15	8	44	147.2	-14.8	
89	6.02	8/9	3	-41	11	+72	10	52	174.4	-17.7	
17490	10.28	9	4	-71	12	+24	3	18	118.1	+22.5	
91	8.47	6/9	5	-43	13	+63	1	12	142.0	-23.7	1698 (1)
92	12.84	11	6	-81	16	+46	34	202	84.2	-27.9	1695 (2)
93	13.41	7/9	7	-76	15	+19	4	23	76.6	-32.2	
94	12.6	5	8	-56	12	- 3	3	20	87.7	-24.7	
17495	15.35	10/12	10	-67	21	+75	3	22	50.9	+14.3	
96	15.66	7	10	-69	16	+ 6	5	22	46.8	+28.7	
97	16.67	12	11	-69	22	+74	14	82	33.4	+22.2	1699 (1)
98	17.14	11	11	-75	21	+55	16	92	27.3	+24.9	1693 (2)
99	17.0	4	13	-51	16	- 6	5	24	28.5	-25.0	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen Date	First Seen Long. from C.M.	Last Seen Date	Last Seen Long. from C.M.	Corrected Mean Area Umbræ	Corrected Mean Area Whole Spots	Mean Position Long.	Mean Position Lat.	Reference
	1956	d	1956	°	1956	°			°	°	
17500	June 19.01	12	June 13	-73	June 24	+70	19	96	2.5	-25.0	1694 (2)
01	19.69	13	13	-80	25	+74	103	538	353.5	+22.0	
02	17.12	10	14	-40	23	+81	94	558	27.6	+31.5	1700 (1)
03	20.08	12	14	-79	25	+71	8	39	348.3	-17.5	
04	21.39	14	14	-85	27	+72	65	401	331.0	-19.5	1696 (2)
17505	25.1	3	19	-73	21	-51	3	14	282.0	+31.2	
06	20.2	7	20	+ 2	26	+82	141	794	346.5	+13.4	1701 (1)
07	23.16	2	22	-12	23	+ 3	2	8	307.6	-16.8	
08	25.8	2	22	-45	23	-33	0	5	272.8	+33.4	
09	28.22	13	22	-78	July 4	+79	23	122	240.5	-14.2	1697 (2)
17510	28.3	3	23	-65	June 25	-40	1	6	239.9	-21.8	
11	29.33	13	23	-76	July 5	+77	38	221	225.9	-30.3	
12	30.80	10/13	24	-76	6	+66	9	48	206.5	+24.7	
13	23.3	2	25	+26	June 26	+40	2	12	305.8	+22.4	
14	26.3	2	27	+13	28	+28	4	22	266.0	+18.0	
17515	July 1.67	11	27	-58	July 7	+79	58	344	194.9	+30.8	
16	2.0	6	27	-63	2	+ 4	3	18	190.4	-26.7	
17	2.26	10	28	-54	7	+72	19	99	187.2	+20.4	
18	4.54	13	28	-80	10	+79	53	289	157.0	+28.4	1688 (4)
19	4.80	12	29	-73	10	+77	23	131	153.5	-16.1	
17520	5.47	13	29	-78	11	+77	36	199	144.6	-23.2	1702 (1)
21	6.46	12	30	-74	11	+63	24	129	131.5	-26.7	1698 (2)
22	June 30.6	2	July 1	+10	2	+22	2	18	208.4	+20.3	
23	July 9.61	14	3	-77	16	+82	70	440	89.9	+19.9	1703 (1)
24	10.38	13	4	-77	16	+77	40	238	79.7	-20.6	
17525	7.66	8	5	-31	12	+61	14	69	115.7	+23.1	1704 (1)
26	8.8	4	5	-47	8	- 4	4	22	99.9	-24.6	
27	12.36	13	6	-78	18	+78	50	295	53.5	+14.7	
28	13.69	13	7	-80	19	+74	21	106	35.8	+18.1	
29	14.47	9	8	-79	16	+23	29	160	25.6	+20.7	1699 (2)
17530	14.98	11	8	-85	18	+45	22	121	18.8	+32.6	1700 (2)
31	14.5	3	9	-67	11	-42	1	9	25.1	-21.3	
32	16.87	8	10	-82	17	+ 7	28	155	353.8	+15.4	1701 (2)
33	10.5	5	11	+11	15	+67	10	49	77.8	+25.6	
34	16.7	3	11	-68	13	-44	2	11	356.4	-12.8	
17535	10.5	4	12	+24	15	+66	10	52	77.6	-26.6	
36	11.6	2	12	+10	13	+23	2	14	62.8	+30.0	
37	16.7	2/3	14	-31	16	- 4	1	6	356.4	+21.6	
38	20.58	13	14	-82	26	+76	31	179	304.7	-15.2	1705 (1)
39	11.2	3	15	+56	17	+81	6	38	68.9	+15.8	1706 (1)
17540	18.61	10	16	-28	25	+83	83	521	330.7	+26.1	1707 (1)
41	22.11	8	16	-75	23	+14	12	68	284.5	-21.3	
42	17.75	2	17	- 4	18	+ 6	1	10	342.1	-20.8	
43	19.3	4	20	+17	23	+53	2	10	321.5	-33.3	
44	27.24	14	20	-83	Aug. 2	+78	187	1016	216.6	-22.0	1708 (1)

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen Date	First Seen Long. from C.M.	Last Seen Date	Last Seen Long. from C.M.	Corrected Mean Area Umbræ	Corrected Mean Area Whole Spots	Mean Position Long.	Mean Position Lat.	Reference
	1956	d	1956	°	1956	°			°	°	
17545	July 24.55	4	July 22	-31	July 25	+13	4	16	252.2	-11.7	
46	25.54	7	25	- 4	31	+76	29	179	239.0	+26.0	1709 (1)
47	31.20	11	26	-65	Aug. 5	+70	16	89	164.2	+24.7	
48	Aug. 1.39	10	26	-76	4	+38	17	111	148.5	-24.7	
49	2.1	5	27	-73	July 31	-24	9	50	139.7	-32.4	
17550	2.73	13	27	-80	Aug. 8	+72	18	110	130.8	-27.2	1702 (2)
51	July 25.1	3	28	+44	July 30	+68	3	16	245.5	+21.7	
52	Aug. 1.74	11	28	-62	Aug. 7	+80	32	191	143.9	-15.2	
53	3.3	4	28	-78	July 31	-40	1	30	123.0	-27.6	
54	3.93	10	28	-84	Aug. 6	+34	8	53	114.9	+23.9	1704 (2)
17555	5.76	14	30	-84	12	+85	135	866	90.7	+18.4	1703 (2)
56	6.20	13	31	-77	12	+80	75	381	84.9	+14.0	1710 (1)
57	5.33	7	Aug. 1	-52	7	+27	7	36	96.4	+22.4	
58	5.76	9	1	-59	9	+50	5	23	90.7	-20.5	
59	7.10	9	1	-77	9	+29	10	56	73.0	+17.5	1706 (2)
17560	8.5	6	2	-79	7	-17	8	47	53.8	+25.3	
61	10.5	5	5	-71	9	-17	6	38	27.7	+13.8	
62	12.36	14	5	-87	18	+78	87	619	3.4	+23.2	
63	7.9	2	6	-21	7	- 7	2	8	62.2	-20.4	
64	7.22	7	7	- 1	13	+83	6	28	71.4	+26.0	
17565	12.90	8	7	-72	14	+17	11	57	356.3	+20.9	
66	13.65	11	7	-84	17	+52	6	33	346.4	+24.4	
67	14.79	12	9	-74	20	+75	58	331	331.3	-14.2	1711 (1)
68	15.47	13	9	-79	21	+78	89	555	322.3	-20.1	1712 (1)
69	15.5	2/4	9	-82	12	-42	0	2	322.2	+26.7	1707 (2)
17570	16.65	8	11	-68	18	+23	16	85	306.6	+28.3	
71	16.8	6	11	-69	16	- 4	10	43	304.2	-15.3	1705 (2)
72	12.2	2	12	+ 2	13	+18	1	10	5.6	-26.8	
73	20.39	14	13	-87	26	+76	99	475	257.2	+21.8	1713 (1)
74	21.48	8/9	15	-82	23	+24	12	54	242.9	+27.1	1709 (2)
17575	15.5	5/6	16	+15	21	+75	20	100	321.5	+36.0	
76	21.90	12	16	-66	27	+79	43	226	237.3	-20.6	
77	23.38	15	16	-77	30	+81	35	180	217.8	+48.3	
78	19.05	9	17	-20	25	+78	45	268	274.9	-24.5	1714 (1)
79	20.10	10	17	-33	26	+76	103	546	261.1	-18.4	1715 (1)
17580	23.4	6/7	17	-76	23	- 2	3	18	217.2	+23.4	
81	23.91	13	17	-81	29	+70	103	474	210.8	-22.7	1708 (2)
82	23.52	8	17	-81	24	+ 6	10	54	215.9	-18.7	
83	17.5	2	18	+14	19	+24	0	4	295.8	-20.0	
84	24.28	12	18	-72	29	+64	53	344	205.9	-26.6	
17585	22.49	8/10	19	-41	28	+77	9	44	229.5	+23.1	
86	24.4	3/6	19	-64	24	- 2	0	3	204.3	-16.9	
87	24.4	5	19	-69	23	-14	4	13	204.0	-12.8	
88	24.36	12	20	-53	31	+83	113	728	204.8	+30.5	1716 (1)
89	24.0	2	21	-37	22	-16	1	8	209.8	+19.5	

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	1956	d	1956	°	1956	°			°	°	
17590	Aug. 20.5	6	Aug. 22	+30	Aug. 27	+87	41	235	255.4	+27.6	
91	28.54	13	22	-77	Sept. 3	+77	11	54	149.6	-22.7	
92	29.1	3	23	-76	Aug. 25	-52	2	18	142.0	+28.5	
93	21.6	4	24	+35	27	+74	8	61	241.8	-28.9	1717 (1)
94	28.39	4	26	-30	29	+14	4	21	151.6	-15.1	
17595	28.67	10	26	-31	Sept. 4	+83	13	59	147.8	+25.2	
96	Sept. 1.13	12	26	-77	6	+69	62	360	102.5	-27.9	1718 (1)
97	1.71	13	26	-85	7	+78	80	616	94.4	+18.3	1703 (3)
98	Aug. 26.1	.3	27	+18	Aug. 29	+44	7	21	181.9	-23.0	
99	31.1	3	27	-47	29	-24	2	6	115.5	-21.9	
17600	Sept. 1.08	6	27	-62	Sept. 1	+ 6	6	24	102.8	+18.9	
01	2.06	7	27	-71	2	+ 3	2	15	89.8	-26.9	
02	1.8	5	27	-70	Aug. 31	-19	14	68	92.3	-19.9	
03	2.50	13	27	-78	Sept. 8	+77	33	180	84.0	+14.4	1710 (2)
04	2.68	14	27	-80	9	+87	55	309	81.7	+32.4	1719 (1)
17605	Aug. 30.38	2	29	-14	Aug. 30	0	1	4	125.3	+10.8	
06	30.76	6	29	-22	Sept. 3	+49	5	21	120.2	+21.2	
07	Sept. 1.12	9	30	-13	7	+84	57	321	102.2	+22.6	
08	4.26	6/11	30	-64	9	+74	5	22	60.9	+23.9	
09	5.19	2/5	Sept. 2	-38	6	+16	0	3	48.6	+17.5	
17610	7.77	9	2	-73	10	+34	11	57	14.5	-13.4	
11	5.7	2	3	-31	4	-18	3	18	42.3	+ 9.1	
12	10.29	11	5	-69	15	+75	47	281	341.1	-15.4	1711 (2)
13	11.65	13	5	-79	17	+74	265	1830	323.3	-24.1	1712 (2)
14	6.2	2	6	+ 3	7	+14	2	6	35.0	-32.4	
17615	10.5	2	6	-55	7	-42	0	8	338.6	+12.6	
16	3.7	2	7	+48	8	+60	5	26	67.8	+15.6	
17	9.1	2	7	-23	8	-10	1	18	357.0	+23.4	
18	9.94	3	8	-23	10	+ 6	1	5	345.9	+25.8	
19	15.67	13	9	-77	21	+72	26	156	270.1	-23.7	1714 (2)
17620	16.06	7	10	-72	16	+ 5	17	113	265.0	-20.9	
21	16.57	13	10	-79	22	+72	48	301	258.3	-19.3	1715 (2)
22	16.96	13	10	-87	22	+75	15	80	253.2	+22.9	1713 (2)
23	13.3	2	11	-27	12	-13	0	3	301.0	-18.2	
24	16.74	12	11	-71	22	+77	68	379	256.0	-16.1	
17625	9.4	2	12	+38	13	+52	3	9	352.6	-25.9	
26	9.6	4	12	+37	15	+77	32	196	349.7	+21.5	1720 (1)
27	14.14	4	12	-22	15	+17	9	42	290.4	+21.4	
28	15.99	8/10	12	-48	21	+72	3	16	266.0	+21.7	
29	17.31	9/12	12	-69	23	+76	5	30	248.5	-22.4	
17630	17.8	3/5	12	-73	16	-17	2	11	242.4	+27.5	
31	18.59	12	12	-79	23	+60	20	90	231.6	-29.9	1717 (2)
32	12.6	6	13	+ 9	18	+76	14	68	310.2	+44.8	
33	18.90	12	13	-74	24	+70	23	128	227.5	+25.6	
34	19.35	12	13	-80	24	+68	28	142	221.6	-14.5	

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	1956	d	1956	°	1956	°			°	°	
17635	Sept. 11.6	4	Sept. 14	+36	Sept. 17	+79	10	57	324.0	+15.1	
36	20.94	10	14	-81	23	+29	22	124	200.6	+30.8	1716 (2)
37	12.9	3	15	+36	17	+60	5	23	307.3	-29.6	
38	21.10	13	15	-71	27	+79	36	214	198.5	-21.4	1708 (3)
39	21.44	13	15	-75	27	+79	23	129	194.0	+23.0	
17640	22.82	12	16	-79	27	+58	40	232	175.8	+26.5	
41	14.9	4	17	+34	20	+69	0	7	279.7	-23.9	
42	16.7	6	17	+ 9	22	+74	19	79	256.3	+11.8	
43	15.8	2	18	+35	19	+47	3	10	268.8	-13.8	
44	15.7	2	19	+47	20	+62	8	22	269.6	-20.8	
17645	17.4	4	19	+24	22	+66	4	19	247.0	-12.6	
46	23.20	6/9	19	-52	27	+57	5	17	170.7	-12.5	
47	22.18	8	20	-29	27	+70	34	160	184.2	+12.4	
48	26.65	13	20	-83	Oct. 2	+75	21	109	125.2	+22.0	
49	26.96	7/10	22	-63	1	+57	4	15	121.2	-17.4	
17650	27.50	11	23	-71	3	+67	16	79	100.8	-14.2	
51	29.35	13	23	-75	5	+77	136	795	89.6	-28.0	1718 (2)
52	30.84	4/7	25	-67	1	+ 3	3	15	69.9	-26.9	
53	Oct. 1.25	13	25	-77	7	+80	54	338	64.5	+20.3	
54	1.40	8	25	-78	2	+12	6	26	62.6	+33.2	1719 (2)
17655	3.4	4	27	-80	Sept. 30	-41	10	51	36.2	+31.7	
56	Sept. 27.3	7	28	+19	Oct. 4	+87	40	215	116.2	+45.0	
57	27.7	7	28	+ 8	4	+82	47	244	110.8	+17.7	
58	Oct. 4.7	3	28	-79	Sept. 30	-58	2	16	19.5	+38.5	
59	Sept. 28.0	2	30	+30	Oct. 1	+45	2	11	108.0	+34.0	
17660	Oct. 5.05	6	30	-65	5	+ 8	8	36	14.4	-25.5	
61	Sept. 28.9	4	Oct. 1	+32	4	+73	17	71	96.0	+13.9	
62	Oct. 7.22	13	1	-71	13	+75	53	336	345.8	-20.3	
63	6.83	13	1	-74	13	+82	153	1089	351.0	+20.1	1720 (2)
64	2.2	4	2	+ 3	5	+41	10	58	51.8	+16.1	
17665	1.6	3	3	+22	5	+53	7	32	60.4	+17.4	
66	8.55	12	3	-71	14	+77	47	300	328.0	-13.7	1721 (1)
67	9.44	13	3	-78	15	+75	42	231	316.5	-23.9	1712 (3)
68	8.57	10/11	4	-54	14	+75	19	104	327.9	+23.3	
69	10.49	10/12	4	-80	15	+63	13	62	302.6	+26.7	
17670	13.03	14	6	-86	19	+83	74	391	269.2	+21.9	1722 (1)
71	5.1	2	7	+32	8	+42	2	14	14.0	-16.6	
72	12.1	2/4	8	-49	11	-11	0	3	281.4	-26.6	
73	14.57	13	8	-79	20	+75	46	219	248.8	-22.2	1723 (1)
74	14.82	9	12	-28	20	+72	16	81	245.5	-19.0	
17675	15.06	9	12	-32	20	+67	13	62	242.3	-23.6	
76	15.7	4	12	-42	15	- 4	6	22	234.2	-20.8	
77	18.02	7	12	-76	18	+ 5	14	63	203.3	-23.3	1708 (4)
78	19.92	5/13	13	-79	25	+70	3	20	178.2	+27.6	
79	13.1	5	14	+16	18	+69	9	46	268.0	-11.4	

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	1956	d	1956	°	1956	°			°	°	
17680	Oct. 17.3	2	Oct. 15	-25	Oct. 16	-11	1	5	212.3	-15.2	
81	21.57	8	15	-81	22	+10	10	57	156.5	+23.2	
82	17.07	8	16	- 8	23	+81	20	115	215.8	+17.0	1724 (1)
83	23.53	12	18	-64	29	+70	15	89	130.6	-44.4	
84	24.49	11	18	-79	28	+47	44	262	118.0	+16.8	
17685	18.2	6	19	+14	24	+78	55	285	200.5	-10.1	
86	25.9	3	20	-72	22	-47	9	40	99.7	+31.4	
87	21.83	2	21	- 6	22	+ 7	2	14	153.0	+15.6	
88	25.1	3	21	-47	23	-23	2	12	109.6	-14.5	
89	25.2	4	21	-51	24	-11	0	6	108.0	+18.8	
17690	26.7	2	21	-72	22	-55	0	8	89.2	+10.2	
91	27.65	13	21	-77	Nov. 2	+70	35	190	76.3	-28.4	1718 (3)
92	25.41	6/8	22	-42	Oct. 29	+53	11	51	105.8	-21.9	
93	29.01	13	22	-73	Nov. 3	+66	56	401	58.4	-29.4	
94	28.67	13	22	-82	3	+75	34	191	62.8	+13.5	
17695	19.2	2	23	+54	Oct. 24	+69	18	104	187.4	+35.0	
96	29.66	13	23	-80	Nov. 4	+73	95	560	49.8	-17.3	
97	27.98	5	24	-49	Oct. 28	+ 5	5	27	71.9	-23.6	
98	Nov. 1.72	11/12	27	-63	Nov. 7	+73	7	34	9.5	-24.8	
99	2.6	4	28	-70	Oct. 31	-26	2	10	357.7	-30.4	
17700	3.07	13	28	-75	Nov. 9	+81	82	443	351.6	+20.8	1720 (3)
01	3.04	8	28	-75	4	+16	22	140	352.1	-17.0	
02	3.08	12	28	-75	8	+70	11	48	351.5	-21.8	
03	Oct. 25.9	3	29	+45	Oct. 31	+75	11	81	98.9	+15.5	1725 (1)
04	26.9	2	29	+33	30	+44	5	20	85.8	+24.6	
17705	Nov. 3.59	12	29	-73	Nov. 9	+79	52	280	344.8	-11.5	1721 (2)
06	5.05	10/13	30	-72	11	+79	19	116	325.5	+25.2	
07	3.8	2	31	-42	1	-32	0	8	342.3	-21.0	
08	4.3	5	31	-50	4	0	11	60	334.9	-12.1	
09	5.93	13	31	-68	12	+81	36	193	313.9	-26.1	1712 (4)
17710	3.38	4	Nov. 1	-26	4	+11	1	14	347.6	+17.4	
11	7.10	12	1	-77	12	+75	96	573	298.5	-13.2	1726 (1)
12	3.80	3	2	-21	4	+ 8	2	15	342.0	-16.9	
13	4.43	5	2	-26	6	+29	8	49	333.7	-15.0	
14	9.07	13	2	-83	14	+67	72	520	272.6	+27.9	
17715	3.3	6	3	0	8	+68	29	165	349.0	+38.1	
16	9.74	13	3	-83	15	+73	116	633	263.6	-17.8	
17	10.08	14	3	-84	16	+74	38	212	259.2	+23.3	1722 (2)
18	1.0	2	4	+43	5	+61	2	10	18.8	-19.4	
19	6.96	3/4	5	-18	8	+19	1	9	300.3	-29.8	
17720	8.74	8/10	5	-44	14	+71	5	26	276.8	-19.5	
21	10.2	6	5	-60	10	- 2	14	82	257.9	+27.6	
22	11.47	13	5	-76	17	+73	179	1407	240.9	-22.2	1723 (2)
23	12.85	13	6	-84	18	+77	74	465	222.7	+16.6	1724 (2)
24	12.47	9	10	-32	18	+79	94	561	227.7	-18.4	1727 (1)

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen Date	First Seen Long. from C.M.	Last Seen Date	Last Seen Long. from C.M.	Corrected Mean Area Umbræ	Corrected Mean Area Whole Spots	Mean Position Long.	Mean Position Lat.	Reference
	1956	d	1956	°	1956	°			°	°	
17725	Nov. 16.2	3	Nov. 10	-78	Nov. 12	-50	1	17	178.5	+26.7	
26	16.30	13	10	-81	22	+81	166	1377	177.2	-13.3	
27	13.41	8	12	-15	19	+82	4	25	215.3	- 8.3	
28	16.01	8	14	-24	21	+72	15	73	181.1	-24.2	
29	15.1	6	15	+ 5	20	+73	19	104	193.6	+21.6	
17730	20.82	12	15	-74	26	+79	62	397	117.7	-15.8	1728 (1)
31	21.59	13	15	-80	27	+77	50	306	107.5	+15.2	1725 (2)
32	13.0	4	16	+47	19	+80	12	65	220.3	+26.2	
33	23.63	14	17	-81	30	+80	170	987	80.6	-24.1	1729 (1)
34	22.0	3	19	-33	21	- 8	11	62	102.2	-14.6	
17735	23.7	4	19	-58	22	-16	6	22	79.9	+34.8	
36	25.4	2	19	-79	20	-66	3	25	56.8	-29.2	1718 (4)
37	22.3	2	20	-24	21	-11	3	14	98.5	+17.8	
38	17.7	2	21	+49	22	+63	6	40	158.8	+30.8	
39	20.2	3	22	+29	24	+53	2	18	125.6	+16.9	
17740	27.04	7/9	22	-57	30	+43	7	39	35.6	-27.5	
41	28.05	12	22	-74	Dec. 3	+76	27	176	22.4	+15.6	
42	30.27	5/6	25	-64	Nov. 30	0	1	7	353.1	-20.8	
43	Dec. 1.06	12	25	-76	Dec. 6	+72	10	68	342.6	-15.8	
44	1.74	12	26	-71	7	+70	68	445	333.7	+21.9	1730 (1)
17745	Nov. 30.37	8/9	27	-38	5	+66	8	47	351.8	+19.2	
46	Dec. 3.0	4	27	-72	Nov. 30	-35	4	21	317.2	+23.3	
47	3.74	9	27	-81	Dec. 5	+22	26	172	307.4	-12.8	1726 (2)
48	Nov. 29.56	3	28	-15	Nov. 30	+12	8	36	2.5	-24.0	
49	Dec. 3.76	12	28	-69	Dec. 9	+71	33	186	307.1	+24.0	1731 (1)
17750	4.2	6	28	-74	3	-10	13	66	301.9	-25.1	1712 (5)
51	Nov. 29.5	2/3	29	+ 1	1	+26	1	17	3.1	-15.8	
52	Dec. 5.47	12	29	-77	10	+68	14	82	284.6	-17.1	1732 (1)
53	1.14	3	30	- 9	2	+14	10	58	341.6	+15.0	
54	Nov. 30.5	5	Dec. 1	+13	5	+63	5	27	350.6	+29.2	
17755	Dec. 2.4	2	1	-10	2	- 1	6	41	325.4	+20.6	
56	7.58	10/13	1	-77	13	+76	8	49	256.8	+21.9	
57	7.73	12	2	-67	13	+70	35	298	254.8	+26.9	
58	8.13	13	2	-74	14	+79	48	286	249.5	-25.0	
59	7.8	3	3	-58	5	-32	1	8	254.0	+34.2	
17760	8.8	2	3	-70	4	-59	4	19	240.6	-24.2	
61	9.16	13	3	-74	15	+79	22	134	235.9	-16.5	1733 (1)
62	9.5	6	3	-78	8	-16	14	90	231.4	-22.8	1723 (3)
63	9.95	14	3	-81	16	+82	218	1292	225.6	-19.2	1727 (2)
64	2.5	2	5	+36	6	+53	1	8	323.4	+27.4	
17765	10.60	12	5	-69	16	+75	29	167	216.9	-21.9	
66	10.94	12	5	-72	16	+69	23	131	212.5	-17.0	
67	10.72	9/11	6	-58	16	+74	12	96	215.4	-12.0	
68	12.32	7/8	8	-54	15	+42	2	16	194.3	-10.7	
69	13.31	12	8	-62	19	+80	121	929	181.3	-24.6	

GENERAL CATALOGUE OF SUNSPOTS

No. of Group	U.T. of C.M.P.	Duration	First Seen Date	First Seen Long. from C.M.	Last Seen Date	Last Seen Long. from C.M.	Corrected Mean Area Umbræ	Corrected Mean Area Whole Spots	Mean Position Long.	Mean Position Lat.	Reference
	1956-57	d	1956	°	1956-57	°			°	°	
17770	Dec. 13.74	12	Dec. 8	-68	Dec. 19	+72	20	122	175.5	+27.2	
71	11.39	2/4	10	-12	13	+27	0	3	206.5	+25.8	
72	17.28	8	11	-79	18	+13	3	20	128.9	-15.6	1728 (2)
73	13.81	2/7	12	-20	18	+59	0	2	174.6	-18.3	
74	15.2	2	12	-39	13	-24	4	22	155.8	-24.2	
17775	12.1	3	13	+15	15	+43	6	18	197.3	-21.6	
76	12.5	6	13	+11	18	+76	3	13	191.8	-17.0	
77	18.8	2	13	-69	14	-61	2	14	109.4	-22.0	
78	17.2	2	14	-39	15	-26	4	22	129.7	-27.2	
79	20.96	13	14	-82	26	+73	147	977	80.4	+13.8	
17780	12.5	3	15	+36	17	+66	11	72	191.8	+22.5	
81	21.1	4	15	-74	18	-38	7	34	78.7	-22.1	
82	21.40	14	15	-76	28	+81	44	291	74.7	-25.2	1729 (2)
83	15.9	3	17	+22	19	+48	6	28	147.2	+21.2	
84	18.21	2/3	17	-10	19	+19	1	4	116.6	-13.9	
17785	21.1	3	17	-48	19	-19	2	11	78.4	-28.4	
86	22.3	2	17	-62	18	-52	6	22	63.4	+33.8	
87	23.01	11/12	17	-72	28	+71	13	69	53.5	-23.6	
88	24.7	2	19	-69	20	-56	0	6	31.6	+15.0	
89	25.51	13	19	-78	31	+76	138	863	20.6	-16.3	
17790	25.76	13	19	-82	31	+73	118	597	17.2	+15.9	
91	23.44	6	21	-25	26	+34	7	34	47.8	-44.4	
92	23.42	8	21	-29	28	+68	22	142	48.1	+13.1	
93	27.06	11	21	-73	31	+55	20	133	0.1	+13.6	
94	26.96	10	21	-73	30	+46	37	359	1.4	+18.3	
17795	22.4	4	23	+12	26	+52	5	27	60.9	+32.2	
96	29.08	4/7	23	-76	29	+ 5	1	9	333.5	-18.8	
97	29.59	13	23	-78	Jan. 4	+71	83	436	326.7	+34.2	
98	29.62	2/6	24	-71	Dec. 29	- 2	0	8	326.4	+21.6	1730 (2)
99	31.93	12	26	-70	Jan. 6	+68	13	67	295.9	+23.8	1731 (2)
17800	28.52	2	27	-10	Dec. 28	+ 1	1	6	340.9	-19.4	
01	Jan. 1.1	4	27	-60	30	-26	5	27	293.6	+17.1	
02	1.92	13	27	-69	Jan. 8	+80	35	206	282.9	-20.7	1732 (2)
03	2.74	14	27	-79	9	+80	228	1351	272.2	+19.2	
04	Dec. 30.36	9	28	-28	5	+77	7	39	316.7	-11.9	
17805	31.73	10	28	-44	6	+75	36	212	298.5	+28.5	
06	Jan. 2.9	3	28	-74	Dec. 30	-48	5	28	269.8	-35.2	
07	Dec. 30.77	7	30	- 3	Jan. 5	+69	7	32	311.3	+34.4	
08	Jan. 4.10	9/11	30	-64	9	+66	3	18	254.2	+26.7	
09	5.6	7	30	-80	5	- 6	6	47	235.0	-16.7	1733 (2)
17810	6.74	13	31	-83	12	+74	32	159	219.5	-20.4	1727 (3)

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	
				Umbrae	Whole Spots	Longi-tude	Lati-tude
	1956	°	1956			°	°
1369a	Jan. 14	+60.7	Jan. 9.7	0	17	331.3	-25.7
b	21	-72.0	26.8	9	60	105.5	+31.7
c	25	-17.1	26.7	2	13	107.7	+21.7
d	28	+74.8	22.6	0	8	161.3	-17.7
1370a	Feb. 4	-40.5	Feb. 7.5	1	10	312.2	-32.9
b	12	-33.8	15.1	3	11	212.5	-25.7
c	15	- 5.1	15.7	2	13	204.3	+20.7
d	17	-14.0	18.5	0	6	167.8	+27.6
e	19	+ 2.4	19.2	1	8	157.4	+30.1
f	28	+47.3	25.0	3	10	81.5	-28.0
1371a	Mar. 10	- 7.7	Mar. 11.0	2	25	244.1	+20.4
b	11	-14.4	12.6	0	16	223.4	-24.5
c	14	+72.9	8.9	0	4	271.9	+19.1
d	14	-51.9	18.4	2	11	147.1	-20.6
e	14	-69.0	19.6	3	12	130.0	-30.5
f	16	-26.3	18.4	0	2	146.2	-26.5
g	17	+44.4	14.0	0	3	204.4	+18.0
h	17	-17.7	18.7	0	3	142.3	+32.5
i	17	-40.4	20.4	0	3	119.6	-33.2
j	18	+ 6.7	17.9	2	16	153.0	-20.1
k	24	-10.3	25.1	3	35	58.1	+21.4
l	26	+ 8.6	25.7	2	16	50.2	+24.8
1372a	Mar. 31	+ 7.7	Mar. 30.9	2	8	341.4	-12.8
b	Apr. 3	+59.2	29.8	0	9	355.5	+30.6
c	9	-61.7	Apr. 14.0	3	29	155.3	+26.6
d	11	+47.9	7.7	0	3	238.2	-12.8
e	22	+ 6.4	21.9	4	14	51.2	-20.6
f	24	+21.7	22.7	3	13	40.2	-24.3
g	25	-17.7	26.7	3	23	347.1	+15.8
1373a	May 2	-25.4	May 4.2	3	8	248.1	-17.3
b	4	+25.7	2.4	4	14	271.8	+39.3
c	8	+37.6	5.5	0	8	231.7	+26.2
1374a	May 31	-52.6	June 4.3	0	8	197.4	-12.1

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
	1956	°	1956			°	°
1375a	June 21	+52.0	June 17.4	2	8	24.1	-26.7
b	28	+46.9	24.8	4	15	285.8	-24.2
c	29	-60.0	July 3.9	2	12	165.8	-19.9
d	July 16	-13.4	17.4	2	7	347.4	+27.2
e	16	-17.2	17.6	1	7	343.6	+14.9
1376a	July 23	-33.6	July 25.9	1	4	235.0	-14.3
1377a	Aug. 17	-71.7	Aug. 23.0	0	27	222.5	+20.9
b	19	+54.2	15.2	0	6	325.4	-31.7
c	24	-51.0	28.2	2	8	154.5	-13.4
d	25	+49.2	21.6	2	11	241.4	+26.5
e	25	-68.2	30.5	0	11	124.0	-16.3
f	28	-31.2	30.8	0	4	119.8	-34.5
g	28	-56.7	Sept. 1.7	0	5	94.3	-13.4
h	Sept. 4	+ 8.0	3.7	0	8	67.9	+28.9
i	4	-41.5	7.5	3	17	18.4	+19.7
j	5	+34.5	2.7	2	10	81.3	-28.2
k	6	-42.6	9.6	2	14	350.9	-20.4
l	7	+26.7	5.3	2	9	46.7	-20.1
m	8	- 9.6	9.0	1	8	357.8	-14.7
1378a	Sept. 10	-13.7	Sept. 11.3	0	1	327.4	+29.7
b	13	+24.6	11.5	0	5	325.5	-14.4
c	13	-32.4	15.8	2	8	268.5	-30.9
d	13	-46.4	16.9	2	4	254.5	+28.2
e	14	-46.3	18.0	0	2	239.2	-26.5
f	20	-39.1	23.3	1	6	169.8	+19.9
g	22	+27.4	20.2	0	2	209.9	+21.5
h	23	+63.8	18.5	9	29	232.8	-17.2
i	23	+28.0	21.2	0	3	197.0	+34.9
j	23	+12.3	22.4	0	13	181.3	+35.6
k	27	-27.0	29.4	0	5	89.0	+22.3
l	28	-15.4	29.7	2	13	84.8	-18.8
m	Oct. 5	+ 0.5	Oct. 5.3	3	6	10.9	-31.1
1379a	Oct. 10	-46.3	Oct. 13.9	0	3	258.2	-14.3
b	13	+ 5.8	12.9	1	9	270.2	-19.7
c	15	-68.5	20.6	0	6	169.9	-12.1
d	16	+57.6	12.2	4	9	279.8	+28.2
e	16	-34.6	19.2	1	6	187.6	-24.9
f	19	-63.0	24.2	0	5	122.1	+30.7
g	20	-71.0	25.7	0	13	101.5	+18.6
h	26	-43.7	29.7	0	11	48.8	-27.6
i	28	+72.8	22.8	3	21	139.6	+14.7
j	30	+52.6	26.4	2	8	93.1	-21.6

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	
				Umbrae	Whole Spots	Longi-tude	Lati-tude
	1956	°	1956			°	°
1380a	Nov. 7	+41.1	Nov. 4.4	3	12	334.4	+22.1
b	8	-15.3	9.6	2	10	266.1	- 6.2
c	8	-67.1	13.5	0	3	214.3	-24.1
d	11	-42.8	14.7	0	3	197.8	-21.8
e	12	- 8.9	13.1	5	27	219.8	-14.7
f	15	+22.1	13.8	1	10	210.6	+18.2
g	17	-15.9	18.5	4	13	148.2	+12.3
h	18	+ 9.8	17.6	0	9	160.7	+31.3
i	22	+17.7	21.1	3	16	114.4	-40.6
1381a	Nov. 30	+ 7.7	Nov. 29.8	2	25	359.2	-26.1
b	Dec. 3	-70.5	Dec. 8.8	6	27	240.3	-18.3
c	10	+57.3	6.1	2	9	275.8	+11.2
d	13	-50.9	17.3	0	3	129.3	+15.1
e	21	-17.8	22.8	2	11	55.6	-33.6
f	26	-10.7	27.2	0	7	358.2	-21.1
1382a	Dec. 28	-12.4	Dec. 29.3	6	20	331.2	-46.6
b	29	+46.5	25.9	2	10	15.7	-21.2

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 and Kodaikanal, by the letters C and K 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 faculae are given separately for the Sun's western and eastern hemispheres.

MEAN AREAS AND MEAN HELIOGRAPHIC LATITUDE OF SUNSPOTS AND FACULÆ

for each rotation of the Sun and for the year

SUMMARY OF SOLAR ACTIVITY FOR THE YEAR

TOTAL AREAS OF SUNSPOTS AND FACULÆ FOR EACH DAY IN THE YEAR 1956

Date and Place	Projected Area				Corrected Area			
	Umb.	Whole Spots	Faculæ West	Faculæ East	Umb.	Whole Spots	Faculæ West	Faculæ East
JANUARY								
1 H	151	870	451	617	101	560	569	786
2 H	121	663	507	730	78	424	670	925
3 H	96	514	709	1035	59	323	786	1316
4 H	65	454	840	1243	44	313	852	1397
5 H	63	350	901	1103	47	249	1071	1143
6 H	56	355	1121	1025	52	397	1331	1072
7 C	58	329	825	711	48	279	1051	817
8 H	77	420	421	491	64	346	498	516
9 C	62	353	539	522	60	406	755	549
10 H	78	467	734	502	58	340	926	656
11 H	106	613	843	627	67	384	1109	805
12 C	227	970	453	552	130	566	534	722
13 H	272	1404	838	591	224	1255	1014	1013
14 C	299	1780	815	810	322	1996	1024	1214
15 H	528	2583	1050	1227	529	2598	1220	1427
16 H	620	3710	1247	1352	536	3169	1544	1382
17 H	838	4395	626	585	626	3429	700	657
18 H	930	5229	399	564	661	3784	611	751
19 H	1005	5344	454	532	644	3459	514	589
20 H	1000	5587	443	378	615	3447	519	370
21 H	1135	5753	591	429	705	3580	715	626
22 C	919	5180	365	282	584	3301	377	473
23 C	872	4558	361	1191	660	3445	434	1699
24 H	672	3916	875	1158	597	3488	1079	1292
25 H	503	2950	1142	595	527	3127	1568	678
26 C	312	1585	470	460	358	1674	720	490
27 H	233	1020	779	726	170	719	970	862
28 C	163	946	355	209	122	750	366	306
29 C	130	657	261	267	131	654	412	410
30 C	69	355	255	729	70	396	431	1001
31 C	63	304	514	407	68	346	495	445
FEBRUARY								
1 H	110	636	754	597	132	759	803	719
2 H	163	1052	786	560	157	1041	975	692
3 H	177	986	679	968	177	1098	914	1105
4 H	112	675	341	727	75	564	563	729
5 C	62	395	0	168	40	256	0	153
6 C	103	583	105	200	82	472	106	365
7 H	83	427	428	670	61	319	528	921
8 K	68	366	397	575	51	273	472	622
9 C	69	357	487	330	45	235	396	328
10 H	67	372	707	638	86	490	820	1091
11 H	190	1252	386	957	328	2276	545	1363
12 H	373	2103	599	1329	459	2696	792	1588
13 H	510	3299	584	1221	515	3276	732	1485
14 H	721	4252	671	1239	664	3837	940	1448
15 C	1000	5340	285	1312	823	4391	388	1560
16 H	1665	8296	209	942	1145	5623	267	933
17 H	1834	9209	578	516	1121	5628	676	466
18 H	1950	10602	301	131	1130	6158	435	117
19 H	1623	9394	225	212	998	5726	239	388
20 H	1608	10044	670	549	1041	6478	727	690
21 H	1491	8313	1368	1196	1127	6305	1750	1408
22 H	1255	7017	1021	1091	1066	6130	1380	1180
23 H	1020	5834	1016	910	950	5478	1162	924
24 H	784	4315	1320	633	757	4210	1538	540
25 H	578	3044	907	302	506	2812	1201	371
26 H	372	2219	699	519	346	2050	1147	663
27 H	291	1693	603	972	275	1577	877	1164
28 H	380	1856	719	585	308	1518	762	621
29 C	457	2178	900	495	373	1793	1097	586
MARCH								
1 C	379	2627	1016	276	304	2112	1210	466
2 H	480	2767	771	442	326	1894	987	473
3 C	495	2924	556	478	276	1648	790	481
4 H	566	3113	1019	62	330	1828	1084	137
5 H	454	2841	722	367	290	1798	929	662
6 C	514	2922	294	458	350	1997	480	535
7 H	468	2642	880	554	361	2082	977	617
8 H	415	2218	1092	635	358	1929	1198	830
9 H	328	1699	1610	865	334	1791	1983	1301
10 H	252	1316	965	1565	288	1488	1352	2246
11 H	265	1377	770	1966	379	2000	1052	2276
12 H	283	1635	609	1899	325	1863	784	2075
13 H	364	2325	935	1469	364	2310	839	1632
14 H	494	2800	1112	1478	396	2267	1204	1551
15 C	551	2994	510	770	375	2042	607	957
16 H	573	2783	829	583	351	1672	1051	626
17 H	557	2831	219	238	320	1621	352	245
18 H	614	3078	1075	636	358	1811	1101	870
19 H	609	3439	1607	917	402	2314	1836	1166
20 H	418	2707	1116	826	324	2089	1348	1062
21 C	453	2640	614	760	401	2460	740	889
22 H	393	2569	1103	1083	380	2630	1382	1306
23 H	463	2643	779	1051	428	2480	1109	1242
24 C	430	2087	795	839	338	1625	974	1006
25 H	326	1728	1144	597	283	1538	1408	741
26 H	310	1642	737	886	282	1503	991	1245
27 H	267	1526	787	992	202	1166	1079	1138
28 H	308	1896	1310	859	228	1405	1335	832
29 H	363	2151	1263	610	262	1622	1541	650
30 H	299	1822	1155	500	258	1674	1285	686
31 H	216	1126	1398	655	165	873	1741	712
APRIL								
1 H	147	663	1488	417	109	488	1708	439
2 H	87	478	890	551	72	424	1129	816
3 H	66	299	1242	665	66	316	1480	785
4 H	41	199	1212	642	52	243	1607	672
5 H	82	364	1061	816	68	306	1272	1009
6 H	133	797	806	949	112	684	1109	1069
7 C	230	1145	510	881	222	1072	665	1078
8 H	280	1644	798	800	238	1369	761	1080
9 H	383	2094	493	1192	309	1655	609	1513
10 H	483	2865	224	1603	447	2617	277	2158
11 H	515	3002	732	1693	449	2772	649	2300
12 C	622	3180	994	1334	482	2476	1032	1535
13 C	601	3292	998	839	420	2274	1086	934
14 C	720	3597	757	837	453	2254	1013	803
15 H	822	3748	1215	680	488	2273	1342	865
16 H	667	3398	1323	1116	413	2152	1543	1583
17 H	637	3133	1218	1232	484	2399	1458	1483
18 H	605	2959	1577	1928	470	2280	1831	2117
19 H	403	2048	1717	1348	378	1898	1971	1533
20 H	302	1528	2028	1390	315	1752	2577	1682
21 H	404	1846	2181	971	366	1804	2737	1113
22 H	424	2214	1813	847	325	1800	2352	1075
23 H	304	1857	859	668	224	1423	1274	891
24 H	292	1552	937	739	196	1044	1126	789
25 H	209	1133	1437	703	152	805	1405	660
26 H	194	1083	1584	510	144	795	1690	503
27 H	186	1087	1135	185	162	933	1363	250
28 H	127	786	1056	219	125	764	1519	222
29 H	79	411	1033	197	55	282	1343	341
30 H	150	831	1252	469	224	1202	1603	816

TOTAL AREAS OF SUNSPOTS AND FACULÆ FOR EACH DAY IN THE YEAR 1956

Date and Place	Projected Area				Corrected Area			
	Umb.	Whole Spots	Faculæ West	Faculæ East	Umb.	Whole Spots	Faculæ West	Faculæ East
MAY								
1 H	337	1745	889	1056	349	1963	1203	1411
2 H	440	2506	733	1068	362	2140	711	1172
3 H	479	2821	826	851	401	2330	936	1162
4 H	537	3074	803	1284	372	2168	1165	1445
5 H	602	3175	390	1161	385	2043	491	1263
6 H	781	3608	436	1015	506	2334	426	1244
7 H	633	3559	516	1042	416	2358	608	1277
8 H	619	3371	340	963	415	2333	487	1260
9 H	531	2994	869	1266	366	2038	905	1328
10 H	623	3540	1279	1492	438	2492	1296	1860
11 H	723	3950	1189	1438	549	2895	1475	1591
12 C	730	4494	1034	641	526	3216	1253	612
13 H	825	4212	1114	964	563	2869	1348	1061
14 H	605	3371	835	856	437	2534	1105	1130
15 H	498	2782	954	922	349	1947	1158	1116
16 H	407	2441	1274	1425	286	1753	1576	2102
17 H	354	2236	1542	1137	275	1729	1792	1266
18 H	336	2084	1391	1008	264	1694	1602	1063
19 H	338	1993	1342	680	287	1701	1779	842
20 H	377	2136	1655	778	341	1930	2024	890
21 H	415	2195	1168	612	391	2074	1611	716
22 H	299	1720	1077	698	289	1563	1431	759
23 H	310	1492	1348	758	196	935	1541	818
24 H	397	2016	1074	316	247	1280	1345	451
25 H	499	2694	687	362	310	1640	862	504
26 H	527	3139	1180	511	424	2482	1354	659
27 H	601	3302	1122	805	465	2540	1390	974
28 H	528	3067	499	915	472	2919	646	1231
29 H	671	3743	709	943	607	3533	727	978
30 H	603	3324	992	854	526	3038	1103	912
31 H	547	3022	927	1249	426	2367	1378	1473
JUNE								
1 H	503	3016	480	1083	306	1805	731	1246
2 H	530	3000	183	831	303	1722	189	1072
3 H	512	3083	321	577	298	1776	268	645
4 H	468	2696	499	1076	296	1690	569	1413
5 H	434	2507	828	1048	300	1723	949	1280
6 H	330	2005	796	966	294	1785	881	1163
7 H	333	1829	962	965	332	1849	1178	1253
8 H	234	1312	529	943	249	1412	610	1112
9 H	161	966	552	1214	194	1172	896	1237
10 C	115	756	473	687	89	598	503	786
11 C	128	712	450	764	118	737	552	977
12 H	134	754	772	1173	117	662	955	1284
13 H	131	755	508	661	120	664	653	967
14 H	149	804	723	1044	123	728	1027	1615
15 H	283	1459	598	1431	247	1284	717	1746
16 C	479	2542	741	855	360	1930	821	1100
17 C	454	2585	1107	1137	290	1670	1142	1189
18 H	548	3019	942	702	327	1810	1225	708
19 H	717	3627	912	231	420	2129	1106	312
20 C	687	4089	832	178	431	2577	846	244
21 H	688	3705	1173	346	494	2741	1430	440
22 H	601	3764	1238	679	527	3327	1691	772
23 H	571	3372	1195	763	512	2957	1512	1027
24 H	500	2479	1948	646	479	2397	2178	779
25 H	321	1910	1971	1025	396	2372	2342	1208
26 H	148	832	1129	905	186	1098	1579	1040
27 H	147	882	587	679	93	576	932	840
28 H	237	1250	97	400	175	939	81	483
29 C	338	2151	78	424	258	1678	90	659
30 H	484	3025	127	889	371	2394	188	1084

Date and Place	Projected Area				Corrected Area			
	Umb.	Whole Spots	Faculæ West	Faculæ East	Umb.	Whole Spots	Faculæ West	Faculæ East
JULY								
1 H	574	2968	606	1412	423	2119	734	1525
2 H	580	3046	660	661	382	2008	740	678
3 C	511	2934	320	643	342	1987	358	776
4 C	478	2785	420	434	357	2096	539	698
5 C	390	2248	801	1167	283	1694	892	1401
6 H	374	2115	851	913	262	1548	961	1113
7 H	586	3086	716	770	436	2313	1138	965
8 H	657	3509	585	816	446	2433	746	1010
9 H	565	3116	780	681	405	2237	797	854
10 H	547	3180	940	1201	413	2243	1180	1272
11 C	575	3425	578	873	394	2336	952	1190
12 C	642	4004	380	1539	393	2456	588	1918
13 C	598	3444	447	1476	365	2103	497	1682
14 C	456	2354	560	732	315	1686	522	832
15 H	209	1357	1277	1103	189	1264	1482	1293
16 C	217	1144	870	779	204	1183	1131	943
17 H	188	953	841	738	179	979	1044	827
18 H	147	881	1318	398	123	702	1696	431
19 H	224	1377	1227	166	131	796	1339	149
20 H	210	1379	1793	342	120	931	2095	592
21 H	247	1550	1324	596	207	1384	1457	865
22 H	403	2154	1684	947	392	2083	1872	1153
23 H	510	2872	1690	1358	473	2725	1965	1478
24 H	470	2622	1017	1144	415	2410	1267	1132
25 H	461	2555	911	729	332	1959	1338	915
26 H	482	2713	703	920	320	1800	1077	1160
27 H	571	2881	258	1115	358	1916	280	1464
28 C	481	2705	89	1082	325	1949	96	1433
29 H	404	2427	535	1286	296	1816	608	1511
30 H	406	2266	1036	1265	343	1998	1089	1484
31 H	462	2747	1246	1383	497	2904	1313	1647
AUGUST								
1 C	529	2944	556	901	508	2890	620	1078
2 H	608	3441	627	822	450	2665	971	922
3 H	589	3307	283	776	374	2084	396	970
4 H	616	3558	1017	761	362	2071	984	855
5 H	572	3491	995	993	351	2350	1083	1177
6 H	494	3240	1012	902	319	2426	1092	1284
7 H	582	3641	1064	1284	402	2661	1384	1681
8 H	644	3914	846	1080	435	2699	1026	1406
9 H	569	3503	840	1413	458	2876	1140	1953
10 H	525	3236	589	1008	440	2769	700	1233
11 H	479	3176	789	957	398	2672	1050	1035
12 H	479	2893	840	1287	334	2094	1203	1320
13 H	530	3393	680	346	353	2285	961	416
14 H	615	3870	596	502	413	2556	740	633
15 H	592	3580	921	462	400	2351	1162	736
16 H	573	3208	1050	907	423	2386	1248	1186
17 H	538	2821	1220	1040	478	2577	1340	1319
18 H	586	2806	1156	1035	527	2514	1613	1386
19 H	819	3778	1578	1242	649	3009	1670	1376
20 H	989	4714	1339	1180	735	3539	1533	1192
21 H	1085	5759	837	805	743	4039	1105	894
22 H	1129	5710	700	702	741	3733	1006	932
23 H	1108	5983	615	761	764	4152	754	996
24 H	1138	5790	682	649	869	4569	759	715
25 H	893	4775	869	932	684	3854	1141	1131
26 H	650	4202	968	657	550	3618	1320	848
27 H	669	3992	1553	1507	669	4128	2111	2265
28 H	641	4043	1554	1505	625	3908	1733	1847
29 H	651	4266	1237	1478	621	4007	1538	1519
30 H	606	4183	1026	623	481	3447	1627	554
31 C	587	3980	348	360	372	2573	497	476

TOTAL AREAS OF SUNSPOTS AND FACULÆ FOR EACH DAY IN THE YEAR 1956

Date and Place	Projected Area				Corrected Area			
	Umb.	Whole Spots	Faculæ West	Faculæ East	Umb.	Whole Spots	Faculæ West	Faculæ East
SEPTEMBER								
1 C	601	3698	301	399	343	2079	290	417
2 H	584	3482	757	342	337	1983	980	482
3 H	520	2910	674	833	335	1853	937	1230
4 H	539	2791	809	863	381	1973	933	1001
5 C	412	2453	832	994	427	2854	798	1246
6 H	448	2880	1396	1339	593	3969	1740	1601
7 H	571	3409	1351	1009	599	3556	2001	1231
8 H	651	3810	1215	1218	560	3264	1582	1323
9 H	673	4519	672	709	473	3196	999	885
10 H	531	4488	517	1065	361	3182	687	1659
11 H	833	5099	671	1575	622	3879	716	2065
12 H	912	5540	850	1772	729	4265	1091	1951
13 H	913	5494	807	1276	701	4137	901	1668
14 H	832	5699	977	1295	672	4522	1192	1750
15 H	842	4503	961	841	708	3885	1245	945
16 H	670	4243	1163	856	533	3473	1388	1111
17 H	669	3608	1084	1204	522	2948	1500	1418
18 H	538	3230	1413	1445	362	2192	1743	1589
19 H	606	3217	1569	963	393	2086	1638	1212
20 H	618	3048	1451	983	432	2092	1700	1177
21 C	503	2381	1171	698	348	1646	1513	767
22 H	411	1985	1569	774	284	1401	1966	903
23 H	317	1792	985	1058	259	1545	1247	1421
24 H	336	1768	1265	1173	285	1568	1552	1335
25 C	381	2030	951	951	358	1941	1031	1204
26 H	447	2479	1184	1477	379	2109	1409	1660
27 H	427	2400	1266	1035	338	1959	1790	1099
28 H	417	2373	1018	781	258	1492	1484	942
29 H	359	2221	862	676	217	1347	1157	900
30 C	477	2557	454	1122	289	1556	574	1441
OCTOBER								
1 C	568	3212	648	1204	413	2315	790	1736
2 H	723	3717	1540	1621	622	3138	1686	1717
3 H	707	3676	1761	1830	699	3731	2121	2142
4 H	703	4122	1567	1030	606	3680	2244	1249
5 H	690	4140	509	1029	530	3277	672	1081
6 H	642	4142	523	580	386	2695	550	589
7 H	590	3856	472	917	400	2529	701	1431
8 C	653	4505	576	1441	436	2872	597	1802
9 C	698	4688	648	1864	455	3023	715	1935
10 H	726	5022	998	1011	506	3506	1781	1206
11 H	602	4231	1066	1218	464	3427	1033	1449
12 H	614	3453	1535	1000	567	3537	1714	1104
13 H	544	2754	1844	1257	504	2723	2365	1496
14 C	436	2227	1238	967	364	2001	1570	1216
15 H	315	1549	696	1155	228	1156	981	1401
16 H	290	1450	927	934	200	1022	1107	1121
17 C	279	1366	997	847	212	1041	1117	826
18 C	209	1024	1433	1143	253	1351	1678	1475
19 H	252	1364	952	1035	243	1437	1187	1437
20 H	357	1871	902	2152	309	1575	1195	2431
21 H	354	1982	617	1392	286	1646	720	1515
22 H	279	1717	928	1786	296	1735	1055	2022
23 H	284	1593	952	1586	341	2056	1300	2010
24 H	408	2152	1169	1918	398	2196	1298	2051
25 H	419	2359	1023	1371	343	1929	1028	1313
26 H	414	2400	935	543	279	1631	1059	596
27 H	405	2609	878	353	255	1657	1036	486
28 H	498	2925	592	946	402	2437	821	1434
29 H	643	3578	1420	2087	494	2772	1916	2399
30 H	704	4168	1123	2085	501	2913	1412	2127
31 H	738	4021	1081	1162	521	2939	1374	1196
NOVEMBER								
1 H	737	4355	1335	696	498	3044	1330	907
2 C	534	3541	1266	590	415	2837	1426	752
3 C	577	3572	1193	1546	487	3169	1554	2077
4 C	697	4360	824	1316	563	3581	1506	1704
5 H	1038	6006	659	1397	843	5491	652	1531
6 H	1240	6797	1106	986	941	5554	1151	1210
7 H	1441	8296	1922	1193	1101	6344	2171	1519
8 H	1503	9106	1288	1086	1052	6305	1533	1155
9 H	1292	8248	1399	668	837	5364	2121	704
10 C	1142	7365	801	718	745	4840	1105	1126
11 H	1046	6248	1071	938	704	4344	1279	1169
12 H	951	6614	1063	714	646	4500	1319	805
13 C	816	5776	771	486	526	3719	1047	643
14 C	919	6034	1113	402	633	4137	1354	481
15 H	982	6790	1049	599	779	5231	1282	916
16 H	817	6299	1296	791	652	4844	1521	999
17 C	734	5909	844	982	659	4993	982	1065
18 C	713	5591	762	757	679	4933	1104	1101
19 H	811	5525	1201	1226	636	4363	1624	1580
20 H	915	5352	985	1310	672	4066	1041	1326
21 H	825	4854	944	1214	624	3962	1354	1420
22 H	697	4272	776	1189	545	3333	1209	1349
23 H	663	3568	636	1232	400	2194	726	1314
24 C	445	2731	620	1254	289	1781	608	1585
25 C	418	2773	706	1075	303	2139	722	1394
26 H	346	2444	937	1650	284	2161	1300	2024
27 H	309	1971	447	810	260	1753	632	984
28 H	304	1867	1112	1222	281	1873	1261	1406
29 H	389	2207	1342	1333	328	1963	1751	1350
30 H	435	2817	725	820	283	1882	959	925
DECEMBER								
1 H	442	2544	854	1254	257	1489	929	1439
2 C	388	2710	766	1330	260	1745	846	1468
3 H	391	2493	1050	950	368	2265	1305	1273
4 C	612	3209	930	1344	596	3143	1128	1838
5 C	630	4010	1224	1104	566	3597	1381	1383
6 H	834	5111	1078	1566	621	3812	1393	1703
7 C	797	5083	961	880	546	3457	1223	1182
8 H	912	4990	997	1343	538	2920	1164	1548
9 C	849	5478	600	801	511	3288	685	803
10 H	868	5334	1242	568	527	3223	1386	634
11 C	1005	6200	836	299	620	3859	898	409
12 C	758	5524	795	340	530	3840	914	459
13 H	759	5116	693	557	505	3466	847	637
14 C	561	4009	783	459	433	3217	943	553
15 C	506	3994	1200	1026	565	4035	1488	1427
16 C	549	3730	1125	815	585	3757	1429	978
17 C	578	3803	1097	901	511	3300	1266	1035
18 C	523	3909	1172	794	465	3572	1463	882
19 H	491	3297	862	855	478	3228	1272	1199
20 C	576	3633	278	836	489	3044	421	1168
21 H	772	4970	317	1226	582	3954	361	1692
22 C	886	5636	334	1000	611	4026	358	1292
23 C	1000	6340	719	922	682	4369	903	1070
24 C	1030	5938	480	1039	674	3943	657	1396
25 C	1032	5915	790	616	667	3812	865	716
26 H	940	5860	996	801	670	4150	1239	1068
27 H	777	5045	1042	819	601	4134	1365	1112
28 C	705	4224	627	743	564	3749	895	984
29 H	802	4225	560	732	621	3275	748	1017
30 C	593	3442	878	1093	481	2822	1010	1396
31 C	555	3293	1354	679	525	3207	1503	865

MEAN AREAS OF SUNSPOTS AND FACULÆ FOR EACH ROTATION OF THE SUN, FROM 1956 JANUARY 8 TO DECEMBER 26

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 1873-1955 printed in the Greenwich Observations for 1884 and succeeding years) correspond to the synodic rotation of the Sun, and the commencement of each is defined by the coincidence of the assumed prime meridian with the central meridian, the assumed prime meridian being that meridian which passed through the ascending node 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 Photographed	Mean Projected Daily Area			Mean Corrected Daily Area		
					Umbræ	Whole Spots	Faculæ	Umbræ	Whole Spots	Faculæ
1369	1956	January	7.51	27	428	2324	1273	333	1835	1581
1370		February	3.85	27	705	3928	1305	544	3062	1590
1371		March	2.19	28	429	2403	1754	333	1888	2118
1372		March	29.50	27	369	1925	2113	286	1523	2534
1373		April	25.77	27	453	2526	1913	344	1929	2319
1374		May	23.00	27	393	2207	1625	298	1694	1963
1375		June	19.20	28	478	2707	1587	355	2032	1938
1376		July	16.40	27	457	2682	1881	346	2097	2272
1377		August	12.62	27	694	3937	1850	543	3140	2299
1378		September	8.87	27	596	3464	2197	459	2687	2706
1379		October	6.14	28	487	2889	2220	377	2275	2635
1380		November	2.44	27	816	5206	2036	610	3961	2513
1381		November	29.75	27	708	4506	1754	524	3348	2144

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 Photographed	Mean Projected Daily Area			Mean Corrected Daily Area		
		Umbræ	Whole Spots	Faculæ	Umbræ	Whole Spots	Faculæ
1956	366	532	3090	1805	406	2393	2196

MEAN HELIOGRAPHIC LATITUDE OF SUNSPOTS FOR EACH ROTATION OF THE SUN, FROM 1956 JANUARY 8 TO DECEMBER 26

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 Mean Daily Area	Northern Spots Mean Hel. Lat.	Southern Spots Mean Daily Area	Southern Spots Mean Hel. Lat.	All Spots Mean Hel. Lat.	All Spots Mean Dist. from Equator
						°		°		°
1369	1956	January	7.51	27	1587	22.94	248	23.57	+16.65	23.02
1370		February	3.85	27	2140	21.76	923	21.43	+ 8.75	21.66
1371		March	2.19	28	1120	23.74	768	21.87	+ 5.19	22.98
1372		March	29.50	27	909	24.73	615	24.66	+ 4.80	24.70
1373		April	25.77	27	1202	21.95	727	20.03	+ 6.12	21.23
1374		May	23.00	27	804	22.95	891	19.64	+ 0.58	21.19
1375		June	19.20	28	1374	22.43	657	21.87	+ 8.10	22.25
1376		July	16.40	27	1210	20.60	887	20.57	+ 3.19	20.59
1377		August	12.62	27	1530	25.87	1610	22.15	+ 1.25	23.96
1378		September	8.87	27	929	23.42	1759	22.58	- 6.68	22.87
1379		October	6.14	28	1026	20.29	1248	21.20	- 2.48	20.79
1380		November	2.44	27	1037	21.76	2924	18.54	- 7.99	19.38
1381		November	29.75	27	1404	19.20	1944	20.47	- 3.83	19.93

MEAN HELIOGRAPHIC LATITUDE OF SUNSPOTS FOR THE YEAR

Year	Days Photo-graphed	Northern Spots Mean Daily Area	Northern Spots Mean Hel. Lat.	Southern Spots Mean Daily Area	Southern Spots Mean Hel. Lat.	All Spots Mean Hel. Lat.	All Spots Mean Dist. from Equator
			°		°		°
1956	366	1242	22.39	1151	20.91	+1.56	21.68

SUMMARY OF SOLAR ACTIVITY FOR THE YEAR 1956

The chief features of the record for 1956 are as follows:-

(1) Activity continued to rise steeply, the mean daily corrected area for November reaching 3823 millionths of the hemisphere.

(2) The largest spot group crossed the Sun's central meridian on September 11.6 in latitude 24°S; its mean area was 1830 millionths.

In addition, there were 32 other groups with mean areas exceeding 500 millionths including 6 with areas over 1000 millionths.

(3) On no day was the Sun free from spots and faculae.

(4) The ratio of mean corrected areas of faculae/sunspots was 0.92, and that of mean corrected areas of umbrae/whole spots 0.170.

(5) The northern and southern hemispheres were nearly equally spotted.

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	250	40
Southern Spots	242	53
Total	492	93

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

Month	Spots		Faculæ
	Projected	Corrected	Corrected
Jan.	2052	1587	1653
Feb.	3659	2878	1602
Mar.	2351	1856	2110
Apr.	1774	1419	2455
May	2897	2221	2300
June	2163	1673	1917
July	2477	1873	2135
Aug.	3910	3016	2285
Sept.	3337	2598	2514
Oct.	2964	2385	2736
Nov.	5043	3823	2472
Dec.	4486	3410	2158

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