ROYAL OBSERVATORY, GREENWICH.

MEASURES OF POSITIONS AND AREAS

OF

SUN SPOTS AND FACULÆ

ON

PHOTOGRAPHS

TAKEN WITH THE

PHOTOHELIOGRAPHS

AT GREENWICH, IN INDIA, AND IN MAURITIUS,

WITH THE DEDUCED

HELIOGRAPHIC LONGITUDES AND LATITUDES.

1892.

MEASURES of POSITIONS and AREAS of SUN SPOTS and FACULÆ on PHOTOGRAPHS taken at the ROYAL OBSERVATORY, GREENWICH, at DEHRA DÛN in INDIA, and at the ROYAL ALFRED OBSERVATORY, MAURITIUS, in the Year 1892.

NOTE.—The Greenwich Civil Time at which the photograph was taken is expressed by the Day of the Year and decimals of a day, reckoning from Midnight, January 1d. 0h.

For convenience of reference the Month and Day of the Month (Civil Reckoning) are added.

The letter I. signifies that the photograph was taken in India; the letter M. that the photograph was taken in Mauritius; the time given is Greenwich Civil Time.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
0d.403	M,AB	2377	0·906	291·3	144·3	+17·7	25	179	408c
		2377	0·853	292·7	137·5	+17·4	22	101	
		2372	0·622	290·9	116·8	+ 9·8	0	20	
		2379a	0·571	329·9	100·7	+26·4	22	144	
		2379	0·557	334·5	97·7	+27·0	0	15	
		2379	0·517	339·4	95·7	+25·7	9	51	
		2385	0·387	209·2	93·9	−22·8	0	31	
		2386	0·460	8·0	78·1	+23·8	0	9	
		2380	0·627	49·4	51·5	+21·2	4	28	
		2376a	0·725	57·2	41·6	+20·6	46	151	
		2376a	0·759	59·2	38·2	+20·5	49	210	
		2376	0·787	58·4	35·9	+22·1	0	51	
		2382	0·838	54·4	32·3	+27·1	0	26	
		2383	0·820	61·2	31·9	+21·2	31	80	
		2384a	0·860	107·8	23·5	−16·9	31	160	
Jan. 1		Centre			(82·1)	(−3·2)	(239)	(1256)	(408)
1·402	CL,JG	2377	0·968	289·0	142·4	+17·4	19	137	813c
		2377	0·942	290·0	136·9	+17·5	0	87	
		2372	0·727	287·8	113·5	+10·4	0	9	369c
		2379a	0·685	316·7	100·7	+27·0	20	144	
		2379	0·654	320·3	96·9	+27·2	4	12	
		2379	0·617	324·2	92·8	+26·9	9	69	
		2385	0·535	231·8	95·9	−22·2	6	56	
		2385	0·507	229·9	93·6	−22·0	0	24	
		2385	0·494	228·2	92·3	−22·2	0	26	132c
		2385	0·499	224·2	91·3	−24·0	5	15	
		2386	0·491	343·2	78·0	+24·7	0	15	
		2387	0·343	22·3	61·3	+15·1	0	6	
		2387	0·385	23·8	59·7	+17·3	2	7	
		2380	0·486	30·0	53·9	+21·7	0	6	
		2380	0·518	34·6	50·6	+22.0	8	37	
		2376a	0·612	48·4	39·8	+21·0	52	500	
		2376	0·659	50·1	36·0	+22·2	5	69	514c
		2383	0·692	51·3	33·2	+22·9	0	12	
1892.									
1d.402	CL,JG	2383	0·709	49·4	32·8	+24·7	25	125	514c
		2382	0·732	45·6	32·8	+28·1	5	19	
		2384a	0·733	109·3	23·1	−16·3	10	110	251c
Jan. 2		Centre			(69·0)	(−3·3)	(170)	(1485)	(2079)
2·221	CL,JG		0·900	302·0	115·8	+26·6			365
			0·858	286·3	114·5	+12·0			543
I.		2377	0·994	289·0	139·4	+18·4	0	75	269c
		2379a	0·788	309·0	100·7	+27·1	19	125	
		2379	0·758	311·6	97·0	+27·5	5	15	689c
		2379	0·716	314·2	92·4	+27·0	5	28	
		2385a	0·667	240·2	95·9	−22·1	14	49	
		2385	0·641	236·9	93·0	−23·3	0	7	
		2385	0·637	235·7	92·4	−23·8	0	9	
		2385b	0·615	233·8	90·2	−24·2	8	41	
		2387	0·360	355·9	58·9	+17·5	0	1	
		2380	0·464	10·9	51·9	+23·5	0	4	
		2380	0·450	13·3	51·0	+22·4	6	26	
		2376a	0·510	34·5	39·4	+21·4	96	439	
		2376	0·547	38·0	36·2	+22·2	8	70	
		2376	0·570	37·7	35·2	+23·5	2	7	
		2382	0·638	36·4	32·2	+27·7	3	12	
		2383	0·556	44·3	33·1	+20·2	0	7	
		2383	0·578	42·0	32·8	+22·2	0	9	
		2383	0·623	41·4	30·5	+24·7	0	6	
		2383a	0·601	45·7	30·0	+21·6	33	152	
		2384a	0·608	113·2	21·9	−16·7	23	105	141c
			0·860	109·7	358·9	−18·7			463
Jan. 3		Centre			(57·4)	(−3·5)	(222)	(1187)	(2470)
3·460	M,AB	2379a	0·903	302·1	100·6	+26·8	11	53	600nf
		2385a	0·839	246·4	97·4	−21·6	12	54	
		2385	0·812	249·8	95·0	−18·4	0	6	
		2385b	0·784	242·2	90·9	−23·8	6	20	
		2387	0·473	310·8	63·4	+14·6	2	11	

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

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

Group 2372, 1891 Dec. 27–1892 Jan. 2. A few small spots in a straight stream. The individual spots undergo many changes.

Group 2376, 1891 Dec. 29–1892 Jan. 10. A large composite spot, *a*, showing great detail, and followed by several small spots.

Group 2377, 1891 Dec. 30–1892 Jan. 3. A pair of small faint spots on Dec. 30, which increase in size up to Jan. 1, after which they diminish again. They are measured together on Jan. 3.

Group 2379, 1891 Dec. 30–1892 Jan. 5. A pair of very small faint spots on Dec. 30. The group has greatly increased in size by Dec. 31, and consists of a large regular spot, *a*, followed by several smaller spots in a straight stream.

Group 2380, 1891 Dec. 30–1892 Jan. 7. A disturbed region preceding Group 2376 in which short-lived small spots appear.

Group 2382, 1891 Dec. 31–1892 Jan. 5. A small spot appearing near Group 2376, to the north.

Group 2383, 1891 Dec. 31–1892 Jan. 9. A small spot following Group 2376, on Dec. 31. The group increases in size on the succeeding days, and on Jan. 3 the group consists of a large spot, *a*, with a few small companions, and by Jan. 4 a second spot, *b*, has formed in the north of *a*. The group diminishes after this, and on Jan. 8 *b* alone remains.

Group 2384, 1891 Dec. 31–1892 Jan. 12. A large regular spot, *a*, with a very small companion on Jan. 8.

Group 2385, 1892 Jan 1–5. A short stream of very small spots close together on Jan. 1. The group has greatly extended by Jan. 3, the first and last spots, *a* and *b*, being the largest. The smaller spots tend to die out.

Group 2386, Jan. 1–2. A small faint spot.

Group 2387, Jan. 2–5. A pair of very small spots on Jan. 2. Only one spot is seen on the succeeding days.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
3d·460	M,AB	2380	0·460	337·5	52·7	+21·5	3	14	
		2376*a*	0·417	4·4	39·8	+21·0	70	564	
		2382	0·522	14·9	33·2	+26·6	0	9	
		2383	0·460	20·7	30·7	+21·9	0	40	
		2383*a*	0·471	25·7	29·2	+21·5	15	94	
		2383*b*	0·504	22·2	29·0	+24·2	9	62	
		2384*a*	0·393	126·5	22·6	−16·9	22	113	
Jan. 4		Centre			(41·8)	(−3·6)	(150)	(1040)	(600)
4·300	M,AB		0·856	237·2	86·5	−29·7			201
I.		2379*a*	0·965	299·6	101·4	+27·3	20	80	889*f*
		2385*a*	0·924	247·6	97·7	−22·0	14	49	440*c*
		2385*b*	0·880	244·3	91·0	−24·2	8	18	
		2387	0·620	300·1	64·4	+15·1	4	8	
		2380	0·560	319·6	53·7	+21·9	0	2	
		2380	0·541	321·6	51·9	+21·6	5	12	
		2376*a*	0·445	340·8	39·8	+21·2	118	528	
		2382	0·511	354·6	33·9	+26·9	2	6	
		2383	0·453	354·1	33·7	+23·1	13	53	
		2383*b*	0·478	3·8	28·8	+24·8	12	85	
		2383*a*	0·439	4·5	28·7	+22·3	24	104	
		2384*a*	0·266	148·0	22·4	−16·6	24	119	
		2388	0·871	113·5	330·4	−22·2	3	11	499*p*
			0·856	67·6	335·2	+17·0			54
Jan. 5		Centre			(30·8)	(−3·6)	(247)	(1075)	(2083)
5·335	CL,JG		0·953	243·7	89·1	−26·2			547
I.			0·942	299·8	82·8	+26·3			1335
			0·775	292·5	64·8	+14·7			298
		2380	0·703	306·6	54·5	+21·7	2	5	252*c*
		2380	0·675	310·2	51·0	+22·6	0	11	
		2376	0·601	319·6	42·3	+23·7	3	19	
		2376*a*	0·551	319·7	39·6	+21·3	106	520	
		2376	0·515	315·2	39·5	+17·8	1	11	
		2376	0·519	324·3	36·1	+21·2	0	11	
		2376	0·519	327·0	34·9	+22·1	6	24	
		2383	0·527	335·1	31·3	+24·8	0	2	
		2383*a*	0·484	337·1	28·9	+22·7	10	63	
		2383*b*	0·503	340·1	28·0	+24·4	9	54	
		2388*	0·408	231·4	36·7	−18·3	0	9	
		2384*a*	0·239	200·4	22·2	−16·7	20	117	
			0·929	127·2	311·6	−35·8			123
			0·936	108·5	307·9	−18·7			135
Jan. 6		Centre			(17·2)	(−3·8)	(157)	(846)	(2690)
1892.				°	°	°			
6d·182	M,AB		0·954	243·6	78·3	−26·1			211
I.			0·951	299·9	73·3	+26·8			352
			0·793	246·2	56·8	−21·1			226
		2380	0·785	302·4	51·5	+22·1	2	6	558*c*
		2376	0·703	309·7	42·0	+23·5	9	33	
		2376	0·640	304·0	39·7	+17·7	0	5	866*c*
		2376*a*	0·657	308·2	39·4	+20·7	92	433	
		2376	0·624	312·8	35·4	+21·7	10	31	
		2383	0·587	322·0	29·2	+23·9	0	4	
		2383*a*	0·567	320·6	28·8	+22·3	9	34	
		2383	0·570	323·4	27·7	+23·5	0	2	
		2383	0·600	327·3	27·2	+26·6	0	2	
		2383*b*	0·564	325·3	26·5	+23·9	4	18	118*c*
		2384*a*	0·350	229·4	22·1	−16·9	19	76	
Jan. 7		Centre			(60·0) 6.0	(−3·9)	(145)	(644)	(2331)
7·435	CL,M	2376	0·859	300·0	43·3	+23·1	0	11	
		2376	0·823	301·7	38·8	+23·0	0	11	462*c*
		2376*a*	0·809	299·8	38·1	+21·1	·53	368	
		2376	0·784	302·9	34·7	+22·4	12	54	
		2383*b*	0·723	310·8	26·5	+25·0	7	25	
		2384	0·569	250·1	22·9	−14·4	0	3	
		2384*a*	0·563	247·3	22·0	−15·9	17	78	
		2389*a*	0·634	241·9	26·0	−20·6	9	32	
		2389	0·626	240·8	25·2	−21·1	0	8	
		2389	0·589	237·3	21·7	−21·9	0	12	
		2390*a*	0·928	115·4	282·1	−25·0	45	212	
		2391	0·928	109·1	281·5	−19·2	0	17	410*p*
Jan. 8		Centre			(349·5)	(−4·0)	(143)	(831)	(872)
8·196	CL,JG	2376	0·927	295·0	43·8	+21·3	0	37	
I.		2376	0·908	298·7	39·9	+23·8	0	5	1480*c*
		2376*a*	0·892	296·0	38·5	+20·9	51	337	
		2376	0·870	298·1	35·2	+21·8	11	88	
		2383*b*	0·811	304·3	26·8	+24·4	0	26	
		2389*a*	0·749	245·2	26·2	−21·1	10	37	
		2389	0·703	241·0	21·3	−23·0	0	8	338*c*
		2384*a*	0·688	250·6	21·9	−16·2	18	70	
		2390*a*	0·869	115·9	280·7	−24·5	67	259	
		2390	0·938	117·0	270·5	−26·7	0	27	876*c*
		2391	0·864	110·0	280·5	−19·3	0	23	
Jan. 9		Centre			(339·6)	(−4·1)	(157)	(917)	(2694)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2388, Jan. 5. A small spot surrounded by bright faculæ.
Group 2388*, Jan. 6. A small spot preceding Group 2384.
Group 2389, Jan. 8–9. A few small spots in a short stream south of Group 2384. The first spot, *a*, is the largest.
Group 2390, Jan. 8–21. A large regular spot, *a*, accompanied by a few very small spots. A great extension of the group has taken place by Jan. 18, a second regular spot, *b*, followed by a stream of small spots having formed close to *a* and following it. This second outburst is of considerably greater area than the original group. It increases in size on the succeeding days, and on Jan. 19 and later, consists principally of two very large spots, *b* and *c*, both of which show a rapid proper motion. This group became, at its next return (Group 2421), the largest yet observed at Greenwich.
Group 2391, Jan. 9. A small spot to the north of Group 2390.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
9d·198	M,AB	2376*a*	0·964	292·6	37·7	+20·4	73	261	2552*nf*
		2376	0·965	294·2	37·6	+22·0	11	48	
I.		2384*a*	0·829	253·3	21·7	−16·1	27	79	964*sf*
		2390*a*	0·755	118·9	279·9	−24·3	56	223	1748*c*
		2390	0·854	119·0	269·6	−26·7	0	13	
			0·946	108·0	255·0	−18·4			272
Jan. 10		Centre			(326·2)	(−4·2)	(167)	(624)	(5536)
10·293	M,AB		0·903	298·1	27·4	+26·6			974
		2384*a*	0·944	254·8	22·7	−15·7	19	51	493*s*
I.		2392	0·656	312·5	343·2	+22·5	0	4	
		2390*a*	0·599	126·0	279·8	−24·2	53	194	
		2390	0·612	128·2	279·6	−25·8	3	16	449*c*
		2390	0·642	125·4	276·6	−25·4	0	10	
		2390	0·676	125·8	274·1	−26·6	0	3	
		2390	0·695	122·4	271·6	−25·1	4	8	658*c*
		2390	0·717	123·5	270·1	−26·4	3	5	
			0·863	113·3	253·1	−22·2			667
			0·915	69·4	248·5	+16·9			459
Jan. 11		Centre			(311·8)	(−4·3)	(82)	(291)	(3700)
11·288	HA,JG		0·918	247·8	5·1	−22·1			328
		2384*a*	0·995	254·5	23·8	−15·9	0	87	
I.		2393	0·315	232·1	313·7	−15·4	0	4	
		2390	0·480	142·3	279·7	−26·4	0	5	
		2390*a*	0·469	138·6	278·9	−24·7	45	180	
		2390	0·503	137·6	276·8	−25·8	0	13	554*c*
		2390	0·535	137·3	274·9	−27·1	0	14	
		2390	0·572	130·9	270·2	−25·8	1	9	
			0·818	116·8	245·8	−24·3			472
			0·879	64·1	244·6	+20·2			825
Jan. 12		Centre			(298·8)	(−4·4)	(46)	(312)	(2179)
12·277	HA,JG		0·969	249·9	1·9	−20·6			246
		2390*a*	0·375	162·1	278·4	−25·3	41	199	
I.		2390	0·390	158·3	276·5	−25·6	0	7	
		2390	0·402	150·4	273·1	−24·8	0	7	278*c*
		2390	0·402	142·6	270·4	−22·9	0	4	
		2390	0·445	146·5	269·9	−26·0	1	9	
		2394	0·932	66·5	220·5	+19·9	0	7	1060*p*
		2394	0·948	64·1	218·3	+22·8	0	26	
1892.				°	°	°			
12d·277	HA,JG	2395*a*	0·974	107·0	208·2	−17·6	49	180	554*c*
		2395	0·986	109·8	204·6	−20·3	12	84	
			0·898	73·8	223·9	+12·4			112
Jan. 13		Centre			(285·7)	(−4·5)	(103)	(523)	(2250)
13·401	CL,M	2390*a*	0·377	198·7	278·6	−25·4	26	207	
		2394	0·888	58·7	214·3	+25·0	0	19	
		2394	0·946	59·3	205·1	+27·1	0	32	
		2395*a*	0·872	107·6	210·4	−17·6	18	102	
		2395	0·898	109·8	207·2	−19·8	0	18	390*c*
		2395	0·934	110·2	201·8	−20·5	0	30	
		2396	0·946	76·4	201·5	+11·3	12	90	297*f*
		2397	0·990	100·7	188·5	−11·6	3 30	412	255*f*
Jan. 14		Centre			(270·9)	(−4·6)	(82)	(910)	(942)
							56		
14·181	HA,JG		~~0·608~~	~~263·7~~	~~298·1~~	~~−7·5~~	~~0~~	~~9~~	
		2390*a*	0·451	216·4	277·9	−25·7	39	185	175*c*
I.		2394	0·764	53·4	218·8	+23·6	0	6	
		2394	0·809	54·1	214·5	+25·1	0	10	
		2395*a*	0·786	108·6	209·5	−17·5	34	138	
		2395	0·822	111·1	206·2	−19·9	10	49	665*c*
		2395	0·869	110·5	200·8	−20·1	0	12	
		2396*a*	0·882	74·3	200·9	+11·4	45	160	
		2396	0·943	75·0	192·1	+12·4	0	20	1049*c*
		2400	0·984	75·5	182·7	+13·3	3	61	
		2398	0·945	115·3	189·9	−25·4	0	15	311*c*
		2397	0·950	100·0	188·6	−11·0	81	512	667*c*
		2399*a*	0·986	59·7	184·7	+28·8	0	684	614*c*
Jan. 15		Centre			(260·7)	(−4·7)	(212)	~~(1861)~~ 1852	(3481)
15·179	HA,JG	2390*a*	0·586	230·3	277·5	−26·1	32	177	
		2390	0·574	228·3	276·0	−26·6	0	3	273*c*
I.		2390	0·538	229·2	274·1	−24·8	1	6	
		2394	0·522	32·6	230·0	+21·4	0	9	
		2394	0·564	43·7	223·2	+19·6	0	7	
		2394	0·646	42·9	218·8	+24·0	0	5	
		2394	0·670	45·1	216·3	+24·1	0	6	
		2394	0·709	45·5	213·5	+25·8	0	8	
		2395*a*	0·633	112·2	209·7	−17·6	25	142	580*p*
		2395	0·683	115·1	206·4	−20·4	6	35	
		2396	0·740	69·8	202·6	+11·4	2	9	528*f*
		2396*a*	0·754	70·3	201·3	+11·4	20	110	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2392, Jan. 11. A very small faint spot.
Group 2393, Jan. 12. A very small faint spot.
Group 2394, Jan. 13–17. A few very small faint spots irregularly distributed.
Group 2395, Jan. 13–23. A large regular spot, *a*, followed by a few small spots. The group diminishes in size after passing the central meridian, and *a* alone remains on Jan. 20 and the succeeding days.
Group 2396, Jan. 14–19. A regular spot, *a*, with occasionally a few very small companions.
Group 2397, Jan. 14–26. A large composite spot, *a*. It decreases in size and finally becomes a regular spot with a few very faint companions; *a* remains alone after Jan. 23.
Group 2398, Jan. 15–16. A small faint spot on Jan. 15. A very small faint spot, apparently not the same, is seen near its place on Jan. 16.
Group 2399, Jan. 15–27. A very large composite spot, *a*. It throws off small portions day by day, and has become a regular spot by Jan. 24.
Group 2400, Jan. 15–27. A number of spots, mostly small, in a long stream. The spots undergo considerable changes, both in number and size, the group tending to increase in area. A great outburst has occurred by Jan. 22 in the preceding portion of the group.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
15d·179	HA,JG	2398	0·829	116·5	193·1	−24·5	2	6	195*p*
		2397*a*	0·852	100·2	189·0	−11·2	40	281	746*c*
		2397	0·877	101·2	186·1	−12·1	0	9	
		2399*a*	0·929	56·6	185·7	+28·6	97	531	1115*c*
		2399	0·937	59·4	183·5	+26·4	10	88	
		2400	0·914	73·0	183·7	+13·4	8	17	327*c*
		2400	0·936	73·1	180·4	+14·0	10	61	
Jan. 16		Centre			(247·5)	(−4·8)	(253)	(1510)	(3764)
16·209	HA,JG		0·821	247·8	288·3	−20·9			426
I.		2390*a*	0·730	238·5	277·6	−26·0	34	175	333*c*
		2394	0·557	31·2	215·7	+23·7	0	12	221*c*
		2394	0·583	29·9	215·3	+25·6	0	1	
		2394	0·589	32·5	213·6	+25·1	2	6	
		2395*a*	0·449	120·4	210·1	−17·5	20	124	
		2395	0·511	124·0	207·1	−21·0	4	12	
		2395	0·573	120·2	202·1	−20·9	0	39	
		2396*a*	0·595	62·6	201·5	+11·7	16	102	293*f*
		2396	0·613	63·8	200·0	+11·6	0	4	
		2396	0·633	63·4	198·7	+12·4	0	6	
		2397*a*	0·704	100·8	189·4	−11·1	50	272	494*c*
		2397	0·740	102·0	186·4	−12·2	0	8	
		2399	0·820	53·1	187·3	+26·1	0	10	752*c*
		2399*a*	0·843	51·5	185·6	+28·4	100	546	
		2399	0·853	55·3	182·9	+26·0	0	61	
		2399	0·877	50·2	182·2	+31·1	5	64	
		2400	0·801	68·7	184·0	+13·8	4	26	398*c*
		2400	0·821	68·6	182·1	+14·4	6	32	
		2400	0·845	69·4	179·4	+14·5	4	19	
		2400	0·880	70·4	175·3	+14·6	1	34	
			0·721	119·7	190·8	−24·2			207
			0·980	113·3	154·6	−23·8			318
Jan. 17		Centre			(234·0)	(−4·9)	(246)	(1553)	(3442)
17·193	HA,JG		0·914	249·7	287·0	−20·6			342
I.		2390*a*	0·847	241·9	277·2	−26·3	23	153	779*c*
		2390	0·796	242·8	271·9	−24·5	0	4	
		2390*b*	0·763	239·7	268·0	−26·1	37	192	
		2390	0·754	241·8	267·6	−24·3	2	14	
		2390	0·751	239·3	266·8	−26·1	0	4	
		2390*c*	0·730	240·5	265·2	−24·7	15	74	
		2390	0·720	237·0	263·4	−26·8	6	24	
		2390	0·715	238·7	263·4	−25·5	0	5	
		2401	0·806	251·7	274·2	−17·6	0	8	340*np*
1892.				°	°	°			
17d·193	HA,JG	2402	0·289	207·0	229·0	−19·8	2	7	117*c*
		2402	0·260	198·6	226·0	−19·2	3	12	
		2395*a*	0·292	141·8	210·1	−18·1	26	113	
		2395	0·357	148·2	209·3	−22·5	0	3	
		2395	0·354	142·7	207·8	−21·2	0	10	
		2395	0·412	134·6	202·7	−21·5	0	19	
		2396*a*	0·432	49·6	201·5	+11·5	11	68	
		2397	0·507	104·4	191·0	−11·6	5	17	461*c*
		2397	0·540	107·6	189·2	−13·6	0	13	
		2397*a*	0·541	104·2	188·7	−11·8	46	234	
		2397	0·581	102·6	185·8	−11·4	0	23	
		2403	0·590	45·2	194·7	+20·0	0	5	160*c*
		2403	0·604	48·1	192·7	+19·3	1	10	
		2400	0·656	63·0	184·2	+13·3	5	19	
		2400	0·678	63·2	182·7	+13·9	9	42	
		2400	0·705	64·6	180·2	+13·8	0	8	
		2399*a*	0·740	44·1	185·4	+28·0	94	636	534*c*
		2399	0·738	48·2	183·6	+25·4	0	10	
		2400	0·741	66·3	176·9	+13·7	13	69	448*c*
		2400	0·774	65·9	174·2	+15·0	0	17	
		2400	0·773	68·1	173·7	+13·3	0	12	
		2404*a*	0·899	111·8	157·2	−21·8	0	16	346*sf*
		2405	0·943	70·3	153·3	+16·7	0	11	297*c*
		2405*a*	0·969	69·4	148·2	+18·5	73	264	
			0·881	69·2	162·4	+15·6			127
Jan. 18		Centre			(221·0)	(−5·0)	(371)	(2116)	(3951)
18·219	HA,JG		0·975	249·0	285·5	−21·6			178
I.		2390*a*	0·936	243·9	276·8	−26·2	21	188	896*c*
		2390	0·894	240·7	272·3	−28·4	2	21	
		2390*b*	0·889	243·4	269·4	−25·9	119	490	
		2390	0·861	241·4	265·4	−27·1	6	25	
		2390*c*	0·839	242·7	263·0	−25·5	71	388	
		2402	0·446	244·4	232·1	−15·7	11	31	
		2402	0·423	228·9	227·4	−20·9	2	25	
		2395*a*	0·228	190·5	210·0	−18·0	18	69	
		2395	0·323	182·6	208·4	−23·8	0	17	
		2395	0·243	181·9	208·0	−19·1	0	3	
		2396	0·291	13·2	203·6	+11·3	0	12	161*c*
		2396*a*	0·306	19·0	201·7	+11·7	10	36	
		2403	0·467	23·1	196·3	+20·3	0	8	
		2403	0·487	25·8	194·4	+20·9	0	6	
		2403	0·511	27·8	192·7	+21·9	0	28	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2401, Jan. 18. A very small faint spot.
Group 2402, Jan. 18–23. A few small spots, in a short stream.
Group 2403, Jan. 18–24. Two very small faint spots on Jan. 18, *n p* Group 2400. The group slightly increases in size on the succeeding days, and forms a straight stream of very small spots.
Group 2404, Jan. 18–21. A small faint spot, *a*. Two very small faint spots are seen near it on Jan. 19. The group is not seen on Jan. 20.
Group 2405, Jan. 18–29. A large regular spot, *a*, with occasionally one or two small companions.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
18d·219	HA,JG	2403	0·479	31·2	192·3	+19·2	3	31	
		2403	0·480	35·1	190·7	+18·2	0	9	
		2397	0·342	116·2	189·2	−13·6	0	3	
		2397*a*	0·335	110·7	188·9	−11·6	38	267	150*c*
		2397	0·393	107·1	185·1	−11·4	0	10	
		2400	0·495	50·9	184·3	+13·5	2	15	
		2400	0·530	47·2	183·7	+16·3	0	4	
		2400	0·517	51·2	183·0	+14·3	6	30	154*c*
		2400	0·545	52·3	181·1	+14·9	0	6	
		2400	0·582	57·0	177·4	+14·1	24	82	
		2400	0·624	56·9	174·8	+15·6	0	3	
		2400	0·628	60·3	173·5	+13·9	4	31	235*c*
		2399	0·599	30·3	187·9	+26·2	0	5	
		2399	0·609	33·4	184·8	+25·7	0	55	
		2399*a*	0·645	32·7	184·3	+28·1	124	600	
		2399	0·681	32·4	182·6	+30·4	0	7	334*c*
		2399	0·697	38·6	177·9	+28·5	0	3	
		2404*a*	0·779	114·1	157·7	−21·9	2	11	
		2404	0·816	112·9	153·8	−21·5	0	2	430*nf*
		2404	0·834	112·8	151·9	−21·7	0	2	
		2405*a*	0·894	65·6	148·2	+19·1	48	267	378*c*
Jan. 19		Centre			(207·5)	(−5·1)	(511)	(2790)	(2916)
19·479	CL,HA	2390*a*	0·996	245·0	278·0	−25·4	0	178	
		2390*b*	0·980	244·8	270·4	−25·7	101	604	
		2390	0·969	243·7	267·2	−26·8	0	39	
		2390	0·962	245·1	265·7	−25·4	0	108	245*c*
		2390*c*	0·941	244·2	261·1	−26·0	104	485	
		2406	0·850	300·5	243·1	+22·4	2	27	
		2406	0·830	299·5	241·3	+20·8	0	25	
		2402*a*	0·681	246·9	232·3	−19·4	11	92	
		2402	0·643	246·3	229·3	−19·1	1	10	
		2402	0·613	243·9	226·6	−19·9	0	10	
		2395*a*	0·390	235·9	210·6	−17·5	4	45	
		2403	0·416	349·5	195·5	+18·9	0	9	
		2403	0·388	354·0	193·3	+17·4	0	13	
		2403	0·417	357·5	192·0	+19·3	0	4	
		2403	0·384	357·6	191·9	+17·3	0	6	
		2397	0·119	181·2	191·1	−12·0	0	10	
		2397*a*	0·109	164·1	189·2	−11·2	24	168	
		2397	0·139	152·9	187·2	−12·3	0	5	
		2400	0·327	15·3	185·9	+13·1	0	5	
		2400	0·347	17·9	184·6	+14·0	2	15	
1892.				°	°	°			
19d·479	CL,HA	2400	0·367	26·0	181·4	+14·1	7	41	
		2400	0·401	34·1	177·5	+14·3	0	7	
		2399	0·526	8·5	186·0	+26·1	13	92	
		2399	0·531	8·3	186·0	+26·4	0	15	
		2399	0·525	13·8	183·0	+25·4	6	21	
		2399	0·537	14·4	182·4	+26·2	0	25	
		2399*a*	0·566	9·7	184·7	+28·6	77	546	
		2399	0·601	12·0	182·6	+30·7	0	14	
		2405*a*	0·746	59·1	148·6	+18·6	54	256	
			0·952	74·0	120·6	+13·5			303
Jan. 20		Centre			(190·9)	(−5·2)	(406)	(2875)	(548)
20·293	HA,JG		0·944	250·9	251·3	−19·7			230
			0·851	303·5	231·5	+24·8			432
I.			0·841	235·2	229·9	+25·4			146
		2390*c*	0·985	243·7	261·5	−26·8	84	721	416*f*
		2407	0·967	287·3	253·1	+15·3	0	20	
		2407	0·964	289·0	252·1	+16·8	0	22	410*p*
		2406	0·940	294·0	246·3	+20·4	16	72	
		2406	0·916	295·9	242·1	+21·2	17	85	328*c*
		2402	0·778	249·4	235·5	−19·2	2	11	
		2402*a*	0·807	248·9	233·3	−20·1	15	72	251*c*
		2402	0·756	248·3	228·3	−19·8	2	17	
		2399*a*	0·554	353·0	184·6	+28·1	79	494	
		2399	0·515	353·1	184·1	+25·4	6	95	
		2399	0·554	357·7	181·7	+28·2	3	18	205*c*
		2395*a*	0·537	244·5	210·7	−17·8	2	12	
		2403	0·468	323·0	197·3	+16·9	4	28	
		2403	0·483	328·4	195·7	+19·2	0	6	
		2403	0·455	327·8	194·9	+17·5	1	19	
		2403	0·326	355·8	194·4	+13·7	0	8	
		2403	0·432	329·8	193·3	+16·8	17	92	
		2403	0·444	331·9	192·9	+18·0	1	4	
		2398	0·217	232·1	190·3	−12·7	2	9	
		2398	0·243	213·0	188·1	−16·9	0	11	
		2397*a*	0·187	233·1	188·9	−11·6	0	7	
		2397	0·166	244·6	188·9	− 9·2	23	137	207*c*
		2400	0·331	346·0	184·9	+13·4	0	3	
		2400	0·341	6·5	178·0	+14·6	0	3	
		2404	0·521	126·6	153·4	−22·7	7	42	
		2405*a*	0·633	51·1	148·9	+18·9	0	4	
			0·892	71·0	119·9	+14·4	56	228	
Jan. 21		Centre			(180·2)	(−5·2)	(337)	(2240)	203 (2828)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2406, Jan. 20–22. A short stream of spots on Jan. 20. Only the last spot of the stream remains by Jan. 22.
Group 2407, Jan. 21. Several small spots first seen close to the west limb.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
21d.181	HA,JG		0·907	300·5	224·4	+24·8			342
		2406	0·974	293·7	238·6	+21·6	0	60	495*f*
M.		2402*a*	0·923	250·6	232·7	−19·9	8	32	306*f*
		2395*a*	0·727	250·8	211·0	−17·5	0	11	
		2403	0·644	309·3	197·1	+20·1	3	10	
		2403	0·628	310·6	195·5	+19·5	0	6	
		2403	0·595	310·7	193·4	+18·1	5	29	
		2397	0·436	252·6	190·3	−12·3	0	5	
		2397*a*	0·417	254·3	189·3	−11·3	13	103	
		2399*a*	0·627	331·5	185·0	+28·4	47	411	
		2399	0·596	329·5	184·8	+25·8	0	69	
		2399	0·599	333·1	182·9	+27·1	8	62	
		2399	0·609	336·7	177·8	+28·8	0	10	
		2400	0·447	314·1	184·4	+13·0	14	122	178.1
		2400	0·448	316·4	183·7	+13·8	14	97	
		2400	0·434	325·6	179·9	+15·8	5	15	14.6
2400		~~2399~~	0·402	327·4	~~179·0~~	~~+24·9~~	10	116	
		2405*a*	0·485	32·9	149·1	+18·9	32	211	
		2405	0·452	36·9	148·9	+16·0	0	5	
		2405	0·481	37·9	147·3	+17·2	0	18	
		2408*a*	0·986	102·8	84·0	−13·5	21	132	471*c*
Jan. 22		Centre			(165·2)	(−5·3)	(180)	(1524)	(1614)
22·364	CL,HA		0·929	299·2	215·9	+24·6			651
		2402*a*	0·984	251·0	233·8	−19·7	12	57	578*f*
I.		2395*a*	0·850	252·6	211·1	−17·6	0	12	573*f*
		2409	0·878	305·8	206·4	+27·7	2	11	259*nf*
		2410	0·739	293·8	196·9	+13·4	0	14	401*s*
		2403	0·772	300·6	197·6	+19·3	6	29	
		2403	0·731	301·5	193·9	+18·3	1	9	
		2403	0·713	302·1	192·3	+18·1	4	7	581*c*
		2403	0·695	306·3	189·4	+19·9	0	5	
		2400	0·670	301·5	189·3	+16·1	0	4	
		2397*a*	0·600	258·5	189·7	−11·2	11	75	275*c*
		2397	0·548	256·8	185·9	−11·7	0	23	
		2399	0·698	315·0	185·9	+25·0	0	9	
		2399*a*	0·718	319·7	184·8	+28·5	85	437	
		2399	0·695	317·3	184·5	+26·0	4	94	428*c*
		2399	0·689	320·5	182·5	+27·4	11	60	
		2400	0·613	299·7	186·0	+13·1	23	161	
		2400	0·604	302·8	184·5	+14·4	19	76	
		2400	0·571	302·3	182·6	+13·1	1	5	472*c*
		2400	0·559	305·6	180·8	+14·2	0	18	
1892.				°	°	°			
22d.364	HA,CL	2400	0·539	307·1	179·2	+14·1	2	14	
		2400	0·538	310·0	178·2	+15·3	29	145	
		2405	0·369	11·2	157·3	+15·7	0	10	
		2405	0·382	9·6	156·8	+16·7	0	1	
		2405*a*	0·417	9~~11~~·3	148·~~9~~	+18·~~9~~8	52	266	
		2405	0·400	14·4	147·0	+17·4	5	33	
		2408*a*	0·926	102·9	84·8	−14·0	36	230	660*c*
		2408	0·959	104·5	78·9	−15·4	9	63	
			0·898	49·0	99·3	+32·9			272
			0·885	116·1	91·5	−25·5			217
			0·929	58·0	91·0	+27·0			336
			0·936	70·9	86·5	+15·7			113
Jan. 23		Centre			(153·0)	(−5·4)	(312)	(1868)	(5816)
23·480	CL,HA		0·921	285·4	206·8	+17·8			533
			0·906	247·6	203·1	−22·6			485
		2403	0·901	294·3	198·3	+19·0	0	19	530*c*
		2403	0·855	295·2	192·5	+18·2	0	24	
		2397*a*	0·784	260·4	190·0	−11·0	9	65	257*c*
		2400	0·782	292·0	186·2	+13·3	32	182	
		2400	0·747	294·6	182·6	+14·2	0	33	
		2400	0·720	298·3	179·2	+15·8	9	39	303*c*
		2400	0·688	298·3	176·8	+14·7	12	61	
		2399*a*	0·828	310·3	184·0	+28·5	53	382	
		2399	0·818	308·2	184·0	+26·6	0	59	
		2399	0·803	310·5	181·5	+27·5	5	32	484*c*
		2399	0·813	315·2	180·1	+31·1	0	9	
		2405*a*	0·446	336·3	149·1	+18·6	42	226	
		2405	0·410	337·0	147·8	+16·6	0	18	
		2408*a*	0·809	104·1	84·2	−14·7	28	200	
		2408	0·858	103·9	78·9	−14·9	0	27	427*c*
		2408	0·868	105·5	77·9	−16·2	0	53	
Jan. 24		Centre			(138·2)	(−5·5)	(190)	(1429)	(3019)
24·479	CL,HA		0·947	293·0	192·7	+19·7			682
			0·913	249·9	191·2	−20·6			540
		2397*a*	0·902	260·2	189·9	−11·3	9	52	719*c*
		2400	0·903	286·9	187·2	+12·7	15	91	
		2400	0·883	288·8	184·2	+13·7	16	135	
		2400	0·842	291·7	178·9	+14·9	20	147	735*c*
		2400	0·818	291·7	176·5	+14·1	17	59	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2408, Jan. 22–Feb. 3. A large regular spot, *a*, followed by a short stream of small spots. *a* remains alone by Feb. 2.
Group 2409, Jan. 23. A small faint spot.
Group 2410, Jan. 23. A pair of very small faint spots measured together.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
24d.479	CL,HA	2399	0·906	302·4	183·3	+26·1	0	60	
		2399*a*	0·909	304·5	183·0	+28·1	35	315	617*f*
		2399	0·893	304·2	180·9	+27·0	0	30	
		2405*a*	0·559	316·0	149·2	+18·6	32	239	
		2405	0·518	315·7	147·2	+16·5	0	8	
		2408*a*	0·658	106·7	84·5	−15·2	30	257	
		2408	0·718	104·7	79·5	−14·4	6	38	275*c*
		2408	0·732	107·4	78·5	−16·5	10	76	
Jan. 25		Centre			(125·1)	(−5·6)	(190)	(1507)	(3568)
25·180	CL,HA		0·958	243·8	189·8	−26·7			175
		2397*a*	0·964	260·0	190·9	−11·1	6	41	600*c*
I.		2400	0·963	284·8	188·1	+12·6	20	82	
		2400	0·951	286·0	185·5	+13·3	43	234	1292*c*
		2400	0·907	289·2	178·0	+14·7	100	333	
		2399	0·958	299·2	183·9	+25·8	0	110	
		2399*a*	0·957	301·6	183·0	+28·0	46	291	1260*nf*
		2399	0·943	301·1	180·4	+26·8	0	30	
		2405*a*	0·657	307·1	149·2	+18·6	48	212	252*c*
		2408*a*	0·526	109·4	85·0	−15·0	54	265	
		2408	0·551	111·6	83·6	−16·5	0	4	
		2408	0·585	106·3	80·6	−14·1	0	4	
		2408	0·593	109·1	80·3	−15·8	0	9	601*c*
		2408	0·604	106·2	79·2	−14·3	7	20	
		2408	0·614	109·2	78·8	−16·2	8	67	
		2411*a*	0·961	65·0	45·9	+22·1	13	67	548*np*
Jan. 26		Centre			~~(152·5)~~ 115.8	(−5·7)	(345)	(1769)	(4728)
26·214	CL,HA	2399*a*	0·993	299·0	181·2	+27·9	28	184	624*f*
		2400	0·974	285·5	177·0	+13·7	29	205	688*c*
M.		2405*a*	0·794	298·8	149·3	+18·6	33	235	425*c*
		2408*a*	0·331	120·4	85·1	−15·1	39	283	
		2408	0·405	120·6	80·9	−17·2	0	3	
		2408	0·407	114·2	79·7	−14·9	6	25	
		2408	0·421	117·0	79·3	−16·2	10	32	
		2411*a*	0·880	61·2	46·2	+21·9	9	58	1048*c*
			0·930	84·1	34·5	+ 3·3			193
			0·958	107·4	28·1	−18·3			205
Jan. 27		Centre			(102·2)	(−5·7)	(154)	(1025)	(3183)
1892.				°	°	°			
27d.199	CL,HA		0·916	245·4	155·6	−24·9			279
		2405*a*	0·895	294·1	148·5	+18·6	36	225	594*c*
M.		2408*a*	0·181	154·3	84·6	−15·1	46	299	
		2408	0·235	136·1	79·5	−15·4	0	18	
		2408	0·250	139·3	79·4	−16·6	4	15	
		2408	0·241	131·2	78·4	−14·8	1	5	
		2411*a*	0·780	55·3	45·6	+22·1	8	40	237*f*
		2412	0·983	108·2	8·7	−18·9	0	19	940*c*
		2412	0·999	107·8	1·5	−18·0	0	208	
			0·926	58·9	28·6	+25·9			659
Jan. 28		Centre			(89·2)	(−5·8)	(95)	(829)	(2709)
28·312	CL,JG		0·957	242·6	148·5	−27·9			204
			0·929	296·8	138·1	+22·2			322
I.		2405*a*	0·975	290·2	148·9	+18·2	45	220	627*s*
		2408	0·280	223·2	86·2	−17·5	0	2	
		2408*a*	0·240	225·1	84·8	−15·6	64	293	
		2408	0·220	215·5	82·3	−16·1	0	4	
		2408	0·197	218·9	82·0	−14·7	0	25	215*c*
		2408	0·216	205·9	80·4	−17·0	4	9	
		2408	0·197	204·1	79·5	−16·2	0	7	
		2411*a*	0·643	44·6	45·7	+22·0	9	44	
		2411	0·659	43·9	45·0	+23·2	0	2	249*c*
		2412	0·912	108·5	8·6	−19·3	6	30	
		2412	0·928	107·3	6·1	−18·3	0	11	
		2412	0·960	109·0	4·3	−19·9	0	68	976*c*
		2412	0·973	109·1	357·1	−19·9	20	140	
			0·835	49·3	28·5	+28·9			461
			0·878	55·0	21·2	+26·8			796
Jan. 29		Centre			(74·7)	(−5·9)	(148)	(855)	(3850)
29·217	AB,HA	2408*a*	0·399	244·7	84·6	−15·4	47	314	
		2408	0·364	244·4	82·4	−14·4	0	20	293*c*
I.		2411*a*	0·547	30·1	45·5	+22·4	6	28	
		2412	0·802	109·3	9·7	−19·0	8	23	
		2412	0·818	108·8	8·1	−18·7	0	8	
		2412	0·819	108·2	7·9	−18·3	2	9	796*c*
		2412	0·889	108·8	359·8	−19·4	19	93	
		2413	0·983	67·8	346·7	+20·4	11	51	174*f*
			0·835	49·1	16·7	+29·0			795
			0·949	74·6	353·3	+12·6			221
			0·935	100·5	352·8	−12·0			311
			0·983	107·9	342·0	−18·7			91
Jan. 30		Centre			(62·7)	(−6·0)	(93)	(546)	(2681)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2411, Jan. 26–Feb. 1. A somewhat small regular spot, *a*. A very small companion is seen near it on Jan. 29 and Feb. 1.
Group 2412, Jan. 28–Feb. 8. A long straggling stream of small spots.
Group 2413, Jan. 30–Feb. 2. A single spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
30d·233	CL, AB		0·951	286·1	122·9	+13·3			350
			0·878	311·2	100·0	+31·6			158
		2408*a*	0·585	251·6	84·3	−15·6	52	310	226*c*
I.		2408	0·554	253·4	82·4	−14·3	0	22	
		2414	0·336	212·0	60·4	−22·5	1	5	
		2411*a*	0·480	8·1	45·1	+22·2	4	16	209*p*
		2412	0·649	112·1	10·0	−18·9	5	25	
		2412	0·704	110·7	5·4	−18·9	0	11	347*c*
		2412	0·768	110·1	359·7	−19·3	7	42	
		2412	0·793	110·2	357·3	−19·7	9	47	
		2415	0·812	100·0	354·8	−11·7	6	37	
		2415	0·839	102·1	352·0	−13·4	3	10	272*c*
		2415	0·863	101·9	349·3	−13·4	0	6	
		2413	0·917	64·5	347·5	+20·4	9	23	561*c*
		2416*a*	0·968	63·8	338·3	+23·4	0	50	
			0·784	42·5	11·5	+30·5			325
			0·859	71·5	353·0	+12·4			269
			0·943	108·2	338·0	−19·2			477
Jan. 31		Centre			(49·3)	(−6·1)	(96)	(604)	(3194)
31·298	CL, JG		0·863	240·3	93·7	−28·6			294
			0·899	308·2	90·0	+30·3			261
		2408	0·785	253·6	86·9	−16·6	0	5	
I.		2408*a*	0·761	254·1	84·7	−16·0	49	261	648*c*
		2408	0·736	255·7	82·6	−14·6	2	15	
		2408	0·739	251·1	82·4	−18·0	0	8	
		2411*a*	0·499	341·8	44·9	+22·2	2	5	221*c*
		2411	0·474	343·8	43·4	+20·9	0	3	
		2412	0·463	121·4	10·6	−19·5	5	16	
		2412	0·477	123·0	10·1	−20·6	0	18	
		2412	0·470	118·3	9·6	−18·4	2	6	
		2412	0·493	118·4	8·1	−19·0	0	4	
		2412	0·513	117·1	6·6	−18·8	5	14	219*c*
		2412	0·566	115·6	2·7	−19·3	0	11	
		2412	0·600	114·1	0·0	−19·2	0	3	
		2412	0·613	114·0	359·1	−19·3	8	22	
		2412	0·645	113·7	356·6	−19·8	4	12	
		2415	0·630	99·7	356·2	−10·9	6	18	
		2415	0·639	101·3	355·7	−11·9	0	18	
		2415	0·668	102·1	353·5	−12·6	0	5	322*c*
		2415	0·681	102·2	351·4	−12·8	2	8	
		2415	0·695	103·6	351·4	−13·8	4	10	
1892.				°	°	°			
31d·298	CL, JG	2413	0·805	58·7	348·2	+20·6	7	21	
		2416	0·855	61·1	342·3	+20·8	0	4	
		2416*a*	0·887	60·3	338·8	+22·8	27	145	1228*c*
		2416	0·922	59·1	334·4	+25·4	0	23	
		2417*a*	0·953	64·6	327·4	+21·9	9	44	
		2417*b*	0·980	64·9	320·9	+23·0	3	24	
			0·842	109·3	337·8	−19·5			350
Feb. 1		Centre			(35·3)	(−6·1)	(135)	(723)	(3543)
32·407	CL, JG	2408*a*	0·890	255·0	84·0	−16·2	31	202	366*p*
		2412	0·278	143·9	10·8	−19·0	0	9	
		2412	0·276	138·8	9·7	−18·1	0	4	
		2412	0·310	136·8	7·8	−19·1	4	12	
		2412	0·344	133·9	5·5	−19·8	4	16	
		2412	0·380	133·8	3·7	−21·1	3	7	
		2412	0·431	123·7	358·4	−19·6	3	9	
		2412	0·471	121·2	355·5	−19·7	3	11	
		2415	0·417	103·8	356·4	−11·4	4	16	
		2415	0·506	106·4	350·9	−13·6	3	13	
		2413	0·668	49·8	347·9	+20·3	4	15	
		2416*a*	0·775	54·2	338·0	+22·4	24	106	610*c*
		2416	0·797	52·8	336·7	+24·4	0	7	
		2417*a*	0·865	60·4	326·9	+21·7	6	25	443*c*
		2417*b*	0·915	61·7	320·0	+22·8	7	19	
			0·954	104·8	307·3	−16·0			123
Feb. 2		Centre			(20·7)	(−6·2)	(96)	(471)	(1542)
33·452	AB, HA		0·828	306·2	54·2	+25·0			692
		2408*a*	0·973	254·6	84·5	−16·4	91	195	1000*f*
		2412	0·228	189·6	9·2	−19·2	0	9	
		2412	0·225	182·4	7·5	−19·2	0	4	
		2412	0·246	181·3	7·2	−20·4	5	11	
		2412	0·259	150·4	359·2	−19·2	3	8	
		2412	0·291	140·9	355·7	−19·2	4	10	
		2415	0·174	117·0	357·9	−10·7	3	9	
		2415	0·195	119·3	356·9	−11·7	0	10	
		2415	0·309	147·2	352·8	−14·8	0	7	
		2415	0·276	111·7	351·8	−11·9	0	3	
		2415	0·288	117·3	351·7	−13·7	3	12	
		2418	0·478	39·4	348·6	+15·7	5	14	166*c*
		2418	0·525	46·0	343·9	+15·5	7	25	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

3

Group 2414, Jan 31. A very small spot.
Group 2415, Jan. 31–Feb. 6. A straggling stream of small spots, north of Group 2412.
Group 2416, Jan. 31–Feb. 10. A regular spot, *a*, followed by smaller spots in a straggling stream. *a* has broken up by Feb. 8.
Group 2417, Feb. 1–8. A pair of small spots, *a* and *b*. *b* has disappeared by Feb. 5. A small companion is seen near *a* on Feb. 6.
Group 2418, Feb. 3–6. One or two small spots forming south of the region occupied by Group 2413. The individual spots never last more than two days. The four groups, 2413, 2416, 2417, and 2418, lie very close together, and almost touch each other.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
33d·452	AB, HA	2416*a*	0·639	42·8	339·0	+22·3	18	101	
		2416	0·639	45·9	337·6	+20·9	0	17	
		2416	0·705	42·5	335·0	+25·9	0	8	517*c*
		2416	0·715	44·2	333·5	+25·5	0	34	
		2417*a*	0·741	53·1	327·5	+21·5	14	52	
		2417*b*	0·804	55·8	321·0	+22·5	0	12	
Feb. 3		Centre			(6·9)	(−6·3)	(153)	(541)	(2375)
34·438	CL, JG		0·869	299·3	48·3	+21·5			267
			0·846	303·9	44·1	+24·1			344
		2412	0·338	221·5	7·8	−20·9	4	37	
		2412	0·333	218·8	6·9	−21·2	0	5	
		2412	0·286	221·7	5·5	−18·6	0	3	139*c*
		2412	0·304	216·6	5·1	−20·3	0	5	
		2412	0·303	211·9	3·8	−21·2	0	15	
		2412	0·276	199·6	359·7	−21·4	0	8	
		2412	0·256	197·1	358·6	−20·5	0	4	
		2412	0·229	195·2	357·6	−19·2	0	6	
		2412	0·256	188·2	356·2	−21·1	0	7	
		2412	0·224	187·7	355·8	−19·2	0	2	
		2415	0·198	212·7	0·4	−15·9	50	6	
		2418	0·423	22·6	344·3	+16·6	0	10	
		2416*a*	0·541	27·1	338·6	+22·5	13	115	
		2416	0·535	32·4	336·2	+20·7	0	3	
		2416	0·622	33·0	332·1	+25·4	3	22	
		2416	0·642	34·1	330·4	+26·2	0	3	
		2417*a*	0·624	43·2	326·8	+21·3	4	22	
		2417*b*	0·695	48·2	320·1	+22·3	0	6	
Feb. 4		Centre			(354·0)	(−6·4)	(24)	(279)	(750)
35·432	HA, M	2412	0·520	239·9	9·5	−20·7	0	20	
		2412	0·451	235·4	4·2	−20·7	0	7	
		2418	0·397	351·3	344·5	+16·6	0	10	
		2419	0·218	175·5	339·9	−18·9	0	4	
		2419	0·231	161·3	336·4	−19·0	0	21	
		2416*a*	0·488	3·6	339·0	+22·7	10	102	
		2416	0·547	15·2	331·8	+25·5	2	28	
		2417*a*	0·509	26·4	326·9	+20·8	1	17	
		2420	0·972	66·4	266·6	+21·1	0	41	174*f*
		2420	0·985	67·0	264·5	+21·3	0	86	
		2421	0·963	116·4	265·4	−27·1	26	162	660*c*
		2421*a*	0·985	118·4	259·0	−29·0	70	1362	
Feb. 5		Centre			(340·9)	(−6·4)	(109)	(1860)	(834)
1892.				°	°	°			
36d·207	CL, JG	2422	0·944	290·7	37·9	+17·1	0	10	317*c*
		2423	0·865	253·0	30·7	−17·9	0	6	248*c*
		2423	0·848	251·2	28·6	−19·3	0	12	
I.		2424	0·891	299·0	27·7	+22·2	0	4	941*c*
		2412	0·662	246·8	10·8	−20·0	0	12	
		2412	0·660	244·8	10·3	−21·2	0	11	212*c*
		2412	0·583	242·7	4·1	−20·9	0	11	
		2418	0·465	315·1	350·2	+13·1	0	3	
		2418	0·481	321·7	348·6	+16·0	0	5	
		2419	0·268	215·1	339·9	−18·9	3	13	219*c*
		2419	0·229	202·1	335·8	−18·6	6	30	
		2416	0·485	339·2	341·2	+20·6	1	3	
		2416*a*	0·503	343·8	339·3	+22·5	13	77	
		2416	0·523	353·0	334·6	+24·8	0	12	291*c*
		2416	0·529	357·6	332·0	+25·4	0	15	
		2416	0·554	0·0	330·6	+27·1	0	10	
		2416	0·525	2·1	329·4	+25·1	0	6	
		2417*a*	0·469	6·3	327·7	+21·2	7	16	
		2417	0·505	10·9	324·5	+23·3	0	13	
		2420	0·925	63·3	268·0	+21·7	3	35	503*c*
		2420	0·955	63·6	262·7	+22·8	0	39	
		2421	0·914	118·8	264·6	−28·9	3	29	
		2421*a*	0·956	117·5	256·8	−28·1	356	2259	1227*c*
		2421	0·967	112·0	254·1	−22·9	35	189	
Feb. 6		Centre			(330·6)	(−6·4)	(427)	(2820)	(3958)
37·208	AB, HA	2419	0·414	239·5	339·4	−18·1	0	10	
		2419	0·392	240·9	338·4	−17·1	6	12	
		2419	0·376	238·9	337·1	−17·3	3	4	
M.		2419	0·385	234·2	336·7	−19·2	0	2	
		2419	0·373	235·0	336·2	−18·5	9	19	
		2419	0·363	237·5	336·1	−17·4	1	6	
		2416*a*	0·591	323·5	339·7	+22·2	8	23	
		2417*a*	0·493	340·1	327·8	+21·1	8	14	
		2420	0·828	58·2	268·5	+21·6	0	14	
		2421	0·798	121·2	266·7	−28·6	10	37	
		2421	0·822	119·0	263·6	−27·4	42	158	
		2421	0·832	116·1	262·1	−25·2	4	38	
		2421	0·866	123·2	259·2	−31·8	0	10	
		2421	0·856	113·1	258·9	−23·1	11	62	1450*c*
		2421*a*	0·881	118·5	256·4	−28·1	312	1975	
		2421	0·898	112·6	253·4	−23·1	21	81	
		2421	0·917	112·7	250·5	−23·4	0	20	
Feb. 7		Centre			(317·5)	(−6·5)	(435)	(2485)	(1450)

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

Feb. 7. The photograph on this day is much over exposed and exceedingly badly defined. A large mass of faculæ surrounds Group 2421 but it is impossible to measure it, and the mean of its area on Feb. 6 and 8 has therefore been adopted.
Group 2419, Feb. 5–11. A number of small spots in an irregular cluster. The group increases in size, and on Feb. 8 and the succeeding days consists principally of three spots, *a*, *b*, and *c*, of which the first and last, *a* and *c*, soon become large.
Group 2420, Feb. 5–8. ~~A regular spot on Feb. 5. It diminishes~~ rapidly on the succeeding days.
Group 2421, Feb. 5–18. The largest group as yet photographed at Greenwich. It consists of an exceedingly large composite spot, *a*, surrounded on all sides by many smaller spots. The group undergoes many changes. For an account of the magnetic disturbances taking place during the appearance of this group, see "*Monthly Notices*," vol. LII, p. 354.
Group 2422, Feb. 6. A small spot.
Group 2423, Feb. 6. A pair of small spots.
Group 2424, Feb. 6. A pair of very small spots.

Two spots on Feb. 5. One has disappeared by Feb. 7 and the other diminishes

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
38d·280	CL, JG		0·945	305·3	6·5	+30·3			961
		2412	0·885	249·6	6·0	−21·1	0	12	824c
		2419a	0·613	248·7	340·2	−18·1	12	82	
I.		2419b	0·593	246·0	338·3	−19·3	9	65	
		2419	0·567	250·5	337·1	−16·3	0	6	550c
		2419c	0·551	247·9	335·6	−17·5	17	111	
		2416	0·714	306·2	341·0	+19·8	0	9	
		2416	0·711	311·0	338·9	+22·5	7	29	
		2416	0·689	308·1	338·5	+19·8	6	13	291c
		2416	0·696	310·0	338·1	+21·2	12	34	
		2417	0·679	319·9	332·3	+25·5	0	6	182c
		2417a	0·602	319·7	328·0	+21·3	0	6	
		2420	0·708	49·1	268·2	+22·3	0	9	596c
		2421	0·652	125·4	266·8	−27·4	13	69	
		2421	0·693	124·3	263·1	−28·0	36	209	
		2421	0·701	119·1	261·1	−24·8	5	39	
		2421	0·709	121·2	261·0	−26·4	0	11	
		2421	0·717	123·3	260·8	−28·0	23	60	
		2421	0·724	116·1	258·6	−23·2	9	39	
		2421a	0·770	121·8	255·5	−28·4	554	2037	1673c
		2421	0·764	115·8	254·9	−23·7	0	30	
		2421	0·783	114·0	252·7	−22·8	30	138	
		2421	0·795	115·5	251·8	−24·1	4	12	
		2421	0·819	119·4	250·0	−27·6	27	137	
		2421	0·818	114·0	249·4	−23·3	7	22	
			0·879	59·7	248·2	+22·7			833
Feb. 8		Centre			(303·4)	(−6·5)	(771)	(3185)	(5910)
39·227	AB,CL		0·932	251·6	0·4	−19·5			1150
			0·763	313·1	329·1	+26·2			305
I.		2419a	0·775	251·2	341·5	−18·7	32	138	
		2419b	0·742	249·9	338·3	−19·2	13	53	930c
		2419c	0·704	252·3	335·3	−17·1	57	244	
		2416	0·821	302·5	338·9	+21·8	8	21	
		2416	0·810	304·5	337·1	+22·7	1	5	
		2416	0·798	303·3	336·5	+21·4	7	11	602c
		2416	0·803	305·8	335·9	+23·3	0	7	
		2421	0·516	136·0	267·1	−27·8	25	114	
		2421	0·562	133·2	263·3	−28·4	41	132	
		2421	0·591	134·7	261·9	−30·3	21	127	
		2421	0·564	127·3	261·2	−25·7	14	35	1442c
		2421	0·590	123·0	258·2	−24·3	9	60	
		2421a	0·646	129·1	255·9	−29·4	516	2139	
1892.				°	°	°			
39d·227	AB,CL	2421	0·630	121·5	254·9	−24·5	7	37	
		2421	0·655	119·2	252·4	−23·8	28	152	
		2421	0·709	124·2	249·3	−28·4	29	145	1442c
		2421	0·698	118·8	248·8	−24·6	6	14	
			0·802	50·8	274·4	+25·7			276
			0·892	108·1	227·3	−19·1			552
			0·918	57·9	224·7	−32·0			804
Feb. 9		Centre			(290·9)	(−6·6)	(814)	(3434)	(6061)
40·222	AB,JG		0·974	252·8	355·1	−18·3			561c
			0·854	305·9	327·8	+25·8			398
I.		2419a	0·910	252·9	343·9	−18·3	33	209	
		2419b	0·876	252·1	339·4	−18·9	22	116	
		2419	0·874	253·7	339·1	−17·5	0	9	949c
		2419c	0·839	254·3	335·1	−16·8	51	306	
		2416	0·915	297·9	338·4	+22·2	0	29	
		2416	0·911	297·3	338·0	+21·4	0	9	504c
		2421	0·393	153·9	266·6	−27·1	17	99	
		2421	0·387	141·8	262·7	−24·2	3	13	
		2421	0·452	148·5	262·2	−29·0	53	326	
		2421	0·383	136·9	261·4	−22·7	0	6	
		2421	0·416	140·2	260·8	−25·0	9	57	
		2421	0·420	137·3	259·7	−24·3	0	11	1443c
		2421a	0·499	138·9	256·0	−28·2	434	2258	
		2421	0·497	126·2	252·1	−23·0	23	113	
		2421	0·593	137·0	249·6	−31·6	5	18	
		2421	0·540	125·0	249·0	−23·8	3	10	
		2421	0·569	131·0	248·9	−27·7	21	127	
		2425	0·625	111·1	240·1	−18·3	1	8	
		2425	0·637	111·5	239·2	−18·7	0	6	
		2425	0·672	111·2	236·4	−19·2	0	4	
			0·821	108·8	222·6	−19·2			224
			0·908	55·7	220·4	+27·3			1012
			0·939	113·6	207·1	−24·5			285
			0·969	74·1	204·5	+13·5			162
			0·983	101·4	197·4	−12·4			114
Feb. 10		Centre			(277·8)	(−6·7)	(675)	(3734)	(5652)
41·293	CL,HA		0·942	298·3	328·5	+23·8			559
		2419a	0·988	252·2	346·3	−18·6	67	347	
I.		2419b	0·965	251·5	339·7	−19·6	16	84	1178c
		2419c	0·945	254·6	335·5	−16·7	34	208	
		2419	0·943	252·6	335·1	−18·6	8	59	

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

Group 2425, Feb. 10–19. A few very small spots in a straight stream on Feb. 10. The group increases in size, and consists on Feb. 13 and the succeeding days of two principal spots, *a* and *b*, and a few small spots between these, but somewhat further north. *a* and *b* both divide into two spots later, but are still measured as one. The group lies close to Group 2421, *nf*.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for day).
1892.				°	°	°			
41d·293	CL,HA	2421	0·353	185·8	266·1	−27·1	14	85	
		2421	0·381	176·3	262·1	−29·0	57	342	
		2421	0·322	173·0	261·2	−25·3	11	95	
		2421	0·304	168·5	259·9	−24·0	3	44	
		2421	0·311	163·0	258·0	−23·9	0	43	
		2421*a*	0·397	160·2	254·9	−28·4	359	1986	
		2421	0·492	161·3	252·7	−34·3	0	2	
		2421	0·352	146·3	251·5	−23·5	18	105	
		2421	0·473	154·0	249·7	−31·6	0	31	
		2421	0·435	147·2	248·3	−27·9	17	188	
		2425	0·455	117·5	238·7	−18·2	0	14	
		2425	0·488	119·0	236·9	−19·6	12	41	
		2426	0·951	68·3	195·4	+18·2	16	91	832*c*
		2426	0·968	72·3	191·0	+15·2	6	35	
			0·835	50·2	217·4	+27·7			592
			0·875	71·0	205·8	+13·0			361
			0·882	111·2	201·6	−21·8			264
			0·932	113·4	194·3	−24·2			447
Feb. 11		Centre			(263·7)	(−6·7)	(638)	(3800)	(4233)
Feb. 12		No	Photo	graph.					
43·408	HA,M		0·977	255·9	314·7	−15·2			87
		2421	0·613	234·4	269·5	−26·6	0	3	
		2421	0·584	233·2	267·1	−26·2	4	12	
		2421	0·530	232·6	263·3	−24·8	1	10	
		2421	0·537	227·5	262·1	−27·3	26	100	
		2421	0·494	230·8	260·5	−24·3	9	65	
		2421*a*	0·488	217·5	255·6	−29·2	369	2491	
		2421	0·416	225·1	254·5	−23·5	3	81	
		2421	0·377	218·1	250·5	−23·8	29	119	
		2421	0·397	205·5	246·9	−27·6	10	118	
		2425*a*	0·252	212·2	243·9	−19·0	21	175	
		2425	0·203	200·2	240·0	−17·7	6	21	
		2425	0·216	193·3	238·8	−18·9	12	93	
		2425*b*	0·231	182·6	236·5	−20·1	46	240	
		2426	0·712	56·7	197·3	+17·7	5	17	
		2426	0·732	62·6	193·8	+14·6	11	30	
		2426	0·745	59·3	193·8	+17·3	7	21	490*c*
		2426	0·744	63·5	192·5	+14·4	0	11	
		2426	0·761	63·5	191·1	+15·0	0	4	
		2426	0·795	64·0	188·0	+15·8	0	17	
1892.				°	°	°			
43d·408	HA,M	2427	0·848	74·1	180·2	+ 9·6	33	191	
		2428*a*	0·933	72·0	169·5	+12·8	44	374	724*c*
		2429	0·985	72·9	158·4	+15·4	39	712	
			0·938	55·1	174·0	+29·4			233
Feb. 13		Centre			(235·8)	(+6·8)	(675)	(4905)	(1534)
Feb. 14		No	Photo	graph.					
45·214	AB,JG		0·860	301·4	264·5	+22·5			343
		2421	0·810	239·4	264·5	−28·6	1	8	
I.		2421	0·711	244·4	256·0	−22·9	7	21	
		2421*a*	0·727	235·3	255·3	−29·6	378	2291	
		2421	0·683	242·1	253·2	−23·8	13	80	
		2421	0·667	239·5	251·4	−25·2	5	11	
		2421	0·654	241·0	250·7	−23·9	23	111	1680*p*
		2421	0·696	228·8	250·5	−32·8	3	19	
		2421	0·648	232·3	247·8	−29·0	1	6	
		2421	0·628	233·4	246·7	−27·7	3	17	
		2421	0·624	231·5	245·7	−28·6	1	18	
		2425*a*	0·564	243·7	244·6	−20·3	26	126	
		2425	0·523	243·0	241·7	−19·8	0	19	
		2425	0·487	244·4	239·5	−18·3	0	4	440*c*
		2425*b*	0·457	238·9	236·6	−19·9	37	332	
		2430	0·260	151·4	204·5	−20·0	5	12	
		2430	0·313	142·4	200·4	−21·0	0	7	
		2426	0·472	26·0	199·6	+18·3	0	9	77*c*
		2426	0·489	30·3	197·1	+18·2	0	5	
		2426	0·467	38·9	194·5	+14·7	6	16	145*c*
		2426	0·506	36·3	193·9	+17·4	7	14	
		2427	0·567	61·2	181·9	+ 9·8	23	159	263*c*
		2428*a*	0·725	62·9	170·5	+14·1	31	254	
		2429	0·844	64·5	159·4	+17·2	20	309	1206*c*
		2429	0·869	67·4	155·9	+15·7	35	261	
		2431*a*	0·949	66·1	144 8	+20·1	27	132	454*c*
			0·789	43·2	173·8	+29·7			471
Feb. 15		Centre			(212·1)	(−6·9)	(652)	(4241)	(5079)
46·403	HA,M		0·895	301·2	253·1	+23·9			102
		2421	0·921	243·0	263·9	−27·5	2	16	
		2421	0·891	247·6	259·7	−23·0	7	72	575*c*
		2421	0·895	240·3	259·5	−29·6	6	32	

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

Group 2426, Feb. 11–16. A few scattered small spots. The group is much larger on Feb. 13 than on the preceding or succeeding days.
Group 2427, Feb. 13–22. A regular spot. This group is the first in a succession of five groups following each other in a straight line slightly inclined to the equator. The other four are Groups 2428, 2429, 2431, and 2432.
Group 2428, Feb. 13–23. A large spot, *a*, on Feb. 13 and 15. The spot lengthens out and has broken up into a straight stream of spots by Feb. 16, the leader being the largest.
Group 2429, Feb. 13–25. A great number of small spots in a compact cluster. These have mostly coalesced to form one very large spot, *a*, by Feb. 19.
Group 2430, Feb. 15–21. A few small spots irregularly arranged. On Feb. 18 and the succeeding days the group consists of two spots, *a* and *b*. A very small companion is seen on Feb. 19. *b* has disappeared by Feb. 21.
Group 2431, Feb. 15–26. A large regular spot, *a*, with a small companion on Feb. 16.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
46d.403	HA,M	2421	0·859	248·4	255·7	−22·0	0	8	
		2421a	0·859	241·3	254·0	−28·1	214	2036	
		2421	0·835	247·5	252·8	−22·5	5	74	575c
		2421	0·823	245·5	251·2	−24·0	0	7	
		2421	0·805	245·8	249·4	−23·5	22	72	
		2425a	0·743	249·7	243·9	−19·6	10	118	
		2425b	0·650	247·7	235·9	−19·6	24	263	
		2430	0·266	200·5	202·1	−21·2	2	11	
		2430	0·270	192·4	200·0	−22·2	5	26	
		2426	0·365	3·1	195·2	+14·4	0	3	
		2426	0·412	5·7	194·0	+17·2	0	4	
		2427	0·379	41·3	181·8	+ 9·9	16	172	
		2428b	0·528	49·5	172·1	+13·7	18	89	
		2428	0·559	52·3	169·4	+13·8	13	132	
		2429	0·661	56·1	161·7	+16·0	3	33	
		2429	0·685	54·3	160·8	+18·0	0	15	
		2429	0·696	58·4	158·5	+15·9	8	384	
		2429	0·728	59·3	155·8	+16·6	8	54	
		2429	0·715	62·6	155·7	+14·0	10	46	
		2429	0·739	61·5	154·2	+15·5	10	108	
		2431a	0·844	61·8	144·6	+19·3	30	140	
		2431	0·871	60·2	142·2	+21·7	0	5	105c
		2432	0·915	60·6	136·4	+23·3	0	34	
		2432	0·940	61·6	132·1	+23·7	0	37	229c
Feb. 16		Centre			(196·4)	(−6·9)	(413)	(3991)	(1011)
47·507	HA,ER		0·943	296·4	247·3	+22·0			212
		2421	0·973	247·3	260·1	−23·7	0	122	
		2421	0·944	248·2	253·6	−22·8	0	31	
		2421a	0·943	242·2	253·3	−28·5	139	1264	1391c
		2421	0·918	247·0	249·1	−23·8	0	15	
		2425a	0·882	250·5	244·3	−20·5	11	81	
		2425	0·873	252·0	243·1	−19·1	2	19	478c
		2425b	0·807	250·6	235·7	−19·8	11	150	
		2430	0·420	246·5	205·4	−16·1	5	34	
		2430	0·402	233·6	202·0	−20·4	3	12	
		2430	0·407	229·9	201·4	−21·7	1	13	
		2427	0·295	0·2	181·8	+10·1	22	119	
		2428b	0·391	22·9	172·9	+14·1	9	72	
		2428	0·403	28·1	170·7	+13·8	0	23	
		2428	0·416	31·9	168·9	+13·8	4	13	
		2429	0·513	40·3	161·7	+16·4	1	24	
		2429	0·530	39·1	161·4	+17·7	0	3	
1892.				°	°	°			
47d.507	HA,ER	2429	0·542	45·0	158·5	+16·0	17	181	
		2429	0·524	51·0	157·3	+12·8	0	9	
		2429	0·549	50·9	156·0	+13·9	3	17	
		2429	0·583	50·1	154·3	+15·7	4	63	
		2431a	0·711	53·6	144·7	+19·4	23	162	
		2432	0·813	53·6	136·3	+24·0	0	11	
		2432	0·846	56·1	132·0	+23·7	1	16	252c
Feb. 17		Centre			(181·9)	(−7·0)	(256)	(2454)	(2333)
48·499	HA,ER		0·886	309·5	220·8	+30·1			564
		2421a	0·986	240·6	251·3	−30·1	84	1389	1364c
		2425a	0·962	250·9	244·2	−20·3	1	57	
		2425b	0·918	251·3	236·2	−20·0	7	159	273c
		2430a	0·592	246·1	203·7	−19·6	15	80	
		2430b	0·562	240·8	200·6	−21·9	8	33	
		2427	0·365	321·0	182·2	+ 9·6	28	160	
		2428	0·351	340·9	175·5	+12·4	0	3	
		2428	0·337	345·3	173·8	+12·0	0	7	
		2428b	0·372	349·0	173·0	+14·4	15	62	
		2428	0·379	355·7	170·5	+15·1	0	17	
		2428	0·347	1·8	169·4	+13·3	0	10	
		2428	0·348	1·8	168·2	+13·3	0	10	
		2429	0·379	22·0	160·4	+13·6	0	8	
		2429	0·448	19·0	160·0	+18·1	0	16	
		2429	0·402	25·9	158·4	+14·3	0	11	
		2429	0·430	24·5	158·2	+16·1	17	66	
		2429	0·454	26·0	156·8	+17·1	21	256	
		2429	0·410	35·1	154·9	+12·8	0	7	
		2429	0·466	31·0	154·3	+16·7	0	42	
		2429	0·445	33·4	154·2	+15·0	0	13	
		2431a	0·586	41·8	144·4	+19·5	30	133	
		2432	0·702	45·2	135·9	+23·8	0	11	
		2432	0·719	46·6	134·1	+23·8	0	18	
		2432	0·753	48·4	130·7	+24·5	1	26	
		2433	0·990	103·8	85·6	−14·6	0	70	
			0·953	117·5	95·5	−28·2			319
Feb. 18		Centre			(168·8)	(−7·0)	(227)	(2664)	(2520)
49·288	CL,M		0·983	240·9	239·9	−29·8			
			0·893	249·1	222·1	−21·8			747
I.			0·906	292·2	219·4	+16·7			255
			0·911	306·3	215·2	+28·7			268
		2425a	0·997	250·0	245·6	−20·4	0	92	681
		2425b	0·970	251·2	235·7	−19·9	13	86	519c

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2432, Feb. 16–19. A few very small faint spots in a short stream.
Group 2433, Feb. 18–21. An isolated spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
49d·288	CL,M	2430*a*	0·731	249·7	205·3	−19·5	17	97	
		2430	0·691	246·5	201·0	−21·2	0	5	
		2430*b*	0·685	245·1	200·3	−22·0	5	25	
		2427	0·495	303·6	183·0	+ 9·5	22	153	203*c*
		2428	0·421	318·1	175·0	+11·5	2	6	
		2428*b*	0·447	324·6	173·9	+14·6	19	65	
		2428	0·431	330·0	171·2	+15·0	2	21	
		2428	0·372	331·9	168·7	+12·2	1	7	
		2428	0·395	334·4	168·5	+13·9	0	2	
		2428	0·367	339·0	166·1	+13·1	0	5	
		2429	0·394	353·8	160·9	+16·0	1	15	
		2429	0·367	357·3	159·1	+14·4	0	22	
		2429*a*	0·405	2·6	157·3	+16·7	83	529	
		2429	0·372	5·6	156·3	+14·7	0	7	
		2429	0·347	8·8	155·3	+13·0	0	5	
		2429	0·377	9·2	154·8	+14·8	1	9	
		2431*a*	0·499	26·5	144·8	+19·6	22	137	237*c*
		2432	0·623	36·3	134·7	+23·7	1	5	
		2432	0·644	38·7	132·4	+23·8	1	8	
		2432	0·672	39·8	130·2	+24·8	2	11	
		2433	0·952	102·4	85·3	−14·0	16	59	378*c*
		2434*a*	0·996	63·7	77·8	+25·2	21	171	
Feb. 19		Centre			(158·4)	(−7·0)	(229)	(1542)	(3288)
50·246	HA,JG		0·958	243·8	220·3	−27·0			361
			0·855	294·2	200·0	+16·5			704
I.			0·728	323·6	175·6	+29·7			304
		2430*a*	0·862	250·6	205·6	−20·3	16	66	485*c*
		2430*b*	0·820	247·1	200·6	−22·7	4	14	
		2427	0·657	292·2	183·7	+ 8·9	28	146	138*c*
		2428*b*	0·580	307·2	174·2	+14·4	13	57	228*c*
		2428	0·552	310·3	171·5	+14·5	0	8	
		2429	0·415	326·1	159·5	+13·3	0	15	
		2429*a*	0·443	332·5	158·1	+16·3	33	401	399*c*
		2429	0·382	336·1	154·9	+13·4	0	18	
		2431*a*	0·441	2·0	144·9	+19·0	29	125	177*c*
		2431	0·416	3·7	144·2	+17·4	0	16	
		2433	0·865	102·7	85·4	−14·5	10	53	323*c*
		2434*a*	0·949	61·0	80·0	+24·7	20	191	
		2434*b*	0·967	60·3	76·4	+26·3	0	45	471*c*
		2434*c*	0·971	62·4	74·9	+24·6	13	97	
Feb. 20		Centre			(145·8)	(−7·0)	(166)	(1252	(3590)
1892.				°	°	°			
51d·212	CL,AB		0·945	242·2	204·9	−28·6			275
			0·917	257·3	200·4	−14·5			212
I.			0·919	292·4	195·8	+17·3			935
			0·819	317·9	173·4	+32·1			561
		2430*a*	0·949	252·0	205·8	−19·3	18	40	664*c*
		2427	0·806	287·1	184·2	+ 9·3	24	99	327*c*
		2428*b*	0·727	298·6	174·3	+15·0	11	41	648*c*
		2429	0·555	306·5	160·2	+12·9	2	8	
		2429*a*	0·577	313·1	159·1	+16·8	30	279	386*c*
		2429	0·588	316·2	158·4	+18·7	0	11	
		2429	0·535	315·9	155·8	+16·0	6	91	
		2431*a*	0·491	336·7	145·0	+19·8	26	131	160*c*
		2433	0·736	102·6	85·5	−14·1	13	33	308*c*
		2434*a*	0·881	56·5	79·1	+25·0	32	124	527*c*
		2434*b*	0·911	56·3	75·2	+26·8	7	38	
		2434*c*	0·911	58·1	74·5	+25·2	26	100	
			0·914	68·1	71·0	+16·7			136
			0·953	119·4	59·6	−30·1			187
Feb. 21		Centre			(133·1)	(−7·1)	(195)	(995)	(5326)
52·509	CL,JG		0·928	251·9	185·1	−19·5			139
			0·888	312·0	167·0	+32·1			538
		2427	0·938	282·4	183·9	+ 9·1	10	53	
		2428	0·892	289·4	175·8	+13·7	0	11	675*c*
		2428*b*	0·886	291·4	174·6	+15·2	7	24	
		2429	0·763	295·8	161·0	+14·4	0	10	
		2429	0·745	294·8	159·8	+13·1	0	7	
		2429*a*	0·754	299·9	158·9	+16·9	17	243	676*c*
		2429	0·723	300·2	156·4	+15·9	0	27	
		2431*a*	0·625	313·9	144·4	+19·4	17	114	137*c*
		2434*a*	0·742	47·7	79·1	+24·3	19	93	
		2434*b*	0·780	48·4	75·8	+25·7	9	47	293*c*
		2434*c*	0·777	50·2	75·2	+24·5	6	97	
			0·709	141·6	81·3	−39·6			197*c*
			0·854	121·6	58·6	−30·5			193
			0·948	61·2	50·3	+24·4			386
Feb. 22		Centre			(116·0)	(−7·1)	(85)	(726)	(3234)
53·~~517~~ 406	M,AB	2428	0·960	287·7	173·6	+14·7	0	23	245*s f*
		2429*a*	0·861	293·2	158·4	+15·9	52	171	460*p*
		2431*a*	0·742	303·7	143·4	+18·9	22	112	96*c*
		2435	0·359	343·2	108·9	+13·0	5	14	

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

Group 2434, Feb. 19–28. Three spots, *a*, *b*, and *c*, on Feb. 20 and 21. *b* has broken up by Feb. 22, but is still measured as a single spot. On the succeeding days the group consists almost entirely of the two regular spots, *a* and *c*, which approach each other and are measured together on Feb. 26 and the succeeding days.
Group 2435, Feb. 23–25. A small spot, *a*, on Feb. 23. Two other small spots are seen preceding *a* on Feb. 24; only one of these remains on Feb. 25.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
53d·517	M,AB	2434	0·652	34·8	78·5	+25·8	0	3	
		2434*a*	0·652	36·8	77·4	+25·0	16	60	326*c*
		2434*c*	0·683	40·8	75·4	+24·9	27	111	
		2434	0·714	38·9	72·5	+27·6	0	7	
			0·883	56·5	48·5	+25·2			375
Feb. 23		Centre			(102·8)	(−7·1)	(122)	(501)	(1502)
54·291	HA,JG		0·956	308·3	156·4	+33·4			181
			0·842	239·3	148·7	+29·8			221
I.			0·785	311·0	133·6	+25·7			303
		2429*a*	0·945	289·6	160·2	+15·9	12	217	1483*c*
		2431	0·843	298·3	144·2	+19·2	18	140	254*c*
		2435	0·467	314·4	112·5	+12·4	0	7	
		2435	0·448	317·6	110·6	+12·5	0	4	
		2435	0·448	319·6	109·9	+13·1	4	19	
		2434*a*	0·576	22·9	78·3	+25·1	14	73	
		2434*c*	0·593	26·9	75·4	+25·0	15	133	328*c*
		2434	0·631	27·5	73·5	+27·3	1	6	
			0·933	48·2	34·9	+34·8			725
			0·932	59·3	30·4	+25·2			412
			0·921	111·9	24·8	−22·9			587
Feb. 24		Centre			(92·6)	(−7·1)	(64)	(599)	(4494)
55·245	CL,JG	2429*a*	0·988	286·7	159·0	+15·2	0	124	1516*c*
M.		2431	0·923	294·0	143·3	+18·8	12	121	323*c*
		2435	0·610	300·5	112·9	+11·9	0	12	
		2435	0·580	304·1	109·9	+12·7	0	6	
		2434*a*	0·535	4·3	78·0	+24·9	23	100	
		2434	0·554	6·2	76·7	+26·1	0	4	206*c*
		2434*c*	0·537	8·6	75·5	+24·8	19	85	
			0·950	110·0	7·5	−21·2			771
Feb. 25		Centre			(80·5)	(−7·2)	(54)	(452)	(2816)
56·290	HA,AB		0·950	299·0	132·0	+24·6			328
			0·906	246·9	131·7	−24·0			104
I.		2431	0·989	290·9	144·2	+19·3	0	113	
		2434*ac*	0·561	343·2	76·5	+25·3	29	121	285*c*
		2434	0·582	344·8	76·0	+27·0	0	9	
			0·820	110·1	11·1	−20·6			1438
			0·945	53·9	3·8	+30·7			217
			0·940	109·8	355·2	−21·0			743
Feb. 26		Centre			(66·2)	(−7·2)	(29)	(243)	(3115)
1892.				°	°	°			
57d·237	M,JG		0·881	288·7	112·4	+12·7			166
		2434*ac*	0·634	326·3	76·6	+25·1	18	92	
I.		2434	0·636	327·6	75·9	+25·7	0	7	476*c*
			0·904	48·7	0·3	+32·5			325
			0·873	107·4	352·4	−18·7			715
Feb. 27		Centre			(53·8)	(−7·2)	(18)	(99)	(1682)
58·182	M,AB		0·957	286·0	111·8	+13·0			191
			0·861	253·5	101·2	−17·8			40
I.		2434*ac*	0·738	314·5	76·8	+25·3	5	26	
		2434	0·723	315·2	75·3	+24·9	5	8	179*c*
		2436	0·981	104·3	321·3	−15·4	0	119	
			0·790	42·1	3·6	+30·2			135
			0·907	43·6	350·2	+36·7			320
			0·904	105·5	335·9	−17·0			700
			0·950	61·1	335·4	+24·5			245
Feb. 28		Centre			(41·3)	(−7·2)	(10)	(153)	(1810)
59·456	M,JG		0·872	309·5	74·7	+29·2			379
		2437	0·872	256·4	85·8	−15·4	4	22	
		2437	0·838	255·4	81·9	−16·2	0	14	357*c*
		2436	0·881	103·6	322·1	−15·4	22	93	8238*f*
			0·951	57·5	319·5	+27·9			367
Feb. 29		Centre			(24·5)	(−7·2)	(26)	(129)	(1926)
Mar. 1		No	Photo	graph.					
61·345	HA,AB		0·989	254·9	82·5	−16·0			329
			0·938	301·6	62·6	+26·3			424
I.			0·830	311·5	44·5	+28·3			415
		2436	0·609	106·0	322·5	−15·4	17	46	247*c*
			0·868	68·0	303·5	+15·0			186
			0·932	110·3	290·0	−21·5			369
Mar. 2		Centre			(359·7)	(−7·2)	(17)	(46)	(1970)
Mar. 3		No	Photo	graph.					
63·479	CL,HA	2438*a*	0·979	298·1	47·4	+25·5	45	167	
		2438*b*	0·951	302·2	39·5	+27·5	27	108	566*c*
		2439	0·664	250·4	15·6	−18·4	0	5	
		2439	0·608	248·3	11·0	−18·9	1	8	
		2439	0·609	245·8	10·7	−20·4	0	4	

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

Group 2436, Feb. 28–March 2. A regular spot.
Group 2437, Feb. 29. Two small spots.
Group 2438, March 4–5. A pair of large spots, *a* and *b*. *a* has disappeared at the west limb by March 5.
Group 2439, March 4–6. A few very small spots in an irregular straggling stream.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
63d.479	CL,HA	2440	0·981	117·7	253·6	−28·5	0	58	1097*p*
		2440	0·995	118·6	247·7	−29·0	0	100	
Mar. 4		Centre			(334·5)	(−7·3)	(73)	(450)	(1663)
64·410	HA,M		0·964	256·6	35·0	−14·8			134
			0·856	248·7	18·3	−21·9			124
		2438*b*	0·989	299·5	35·6	+27·7	16	118	834*f*
		2439	0·818	252·9	14·4	−18·1	0	16	75*c*
		2439	0·759	251·1	8·5	−19·0	2	17	53*c*
		2439	0·735	251·3	6·4	−18·6	0	3	
		2440	0·886	114·5	256·7	−25·0	0	11	1682*c*
		2440	0·921	115·9	251·7	−26·6	0	25	
		2440*a*	0·927	118·3	250·8	−28·9	19	101	
		2440	0·960	118·2	244·1	−29·1	9	71	
			0·927	66·6	255·7	+18·5			279
Mar. 5		Centre			(319·3)	(−7·2)	(46)	(362)	(3181)
65·307	CL,JG		0·902	309·4	1·4	+30·8			192
			0·850	321·9	348·0	+36·6			302
			0·476	249·4	334·8	−16·0			293
I.		2439	0·925	252·9	15·9	−18·5	7	37	
		2439	0·877	251·4	9·1	−19·8	5	29	
		2439	0·875	252·4	8·9	−18·9	0	10	516*c*
		2439	0·870	256·1	8·3	−15·6	0	7	
		2439	0·853	251·1	6·2	−19·9	2	8	
		2441	0·308	237·4	322·9	−16·5	2	14	
		2440	0·618	122·7	272·3	−25·3	1	6	
		2440	0·648	116·0	268·6	−22·0	0	4	
		2440	0·768	114·4	257·9	−23·3	3	13	
		2440	0·791	115·9	255·9	−24·8	11	66	
		2440	0·799	117·5	255·3	−26·2	0	6	
		2440	0·817	118·9	253·6	−27·7	0	4	
		2440	0·818	114·6	252·9	−24·2	0	9	2309*c*
		2440	0·832	117·6	251·8	−26·9	8	42	
		2440	0·843	115·7	250·2	−25·5	2	13	
		2440*a*	0·851	119·2	249·8	−28·5	26	118	
		2440	0·904	118·0	242·5	−28·3	9	49	
			0·888	59·3	251·4	+23·0			649
			0·947	43·5	249·4	+39·8			70
Mar. 6		Centre			(307·3)	(−7·2)	(76)	(435)	(4331)
1892.				°	°	°			
66d.412	HA,M	2441	0·519	250·2	323·3	−16·5	0	3	
		2441	0·496	250·3	321·7	−16·0	0	4	
		2440	0·590	119·9	259·1	−23·2	0	7	
		2440	0·631	121·1	256·4	−24·9	0	34	
		2440	0·671	119·7	253·0	−25·0	0	11	1426*c*
		2440	0·688	122·1	252·1	−27·0	0	21	
		2440*a*	0·714	123·8	250·4	−28·8	25	372	
		2440	0·818	123·6	240·0	−31·4	0	7	
		2440	0·781	120·5	243·2	−28·2	0	16	
		2440	0·791	121·0	242·3	−28·8	9	44	
		2440	0·788	118·8	242·2	−27·1	0	8	
			0·963	251·4	8·5	−19·8			294
			0·939	305·6	354·3	+29·8			96
			0·874	243·6	353·6	−26·6			227
			0·867	253·4	353·4	−18·0			172
			0·912	315·6	345·0	+36·3			169
Mar. 7		Centre			(292·8)	(−7·3)	(34)	(527)	(2384)
67·444	HA,M		0·934	250·4	349·3	−20·8			186
			0·901	301·6	336·5	+24·3			92
			0·809	255·4	333·6	−16·0			174
		2440	0·429	132·9	259·3	−23·7	0	3	
		2440	0·480	133·4	256·6	−25·9	0	10	
		2440	0·459	130·6	257·0	−24·0	0	3	
		2440	0·516	127·7	252·7	−24·9	0	6	
		2440*a*	0·571	132·8	250·8	−29·2	32	448	
		2440	0·567	127·0	249·1	−26·2	0	8	
		2440	0·634	128·3	244·8	−29·0	0	4	
		2440	0·649	125·9	242·9	−28·2	3	39	
			0·929	51·9	220·5	+31·4			108
Mar. 8		Centre			(279·3)	(−7·2)	(35)	(521)	(560)
68·357	JG,AB		0·898	254·2	331·8	−17·4			720
		2440*a*	0·448	146·6	250·9	−28·8	76	565	
I.		2440	0·504	146·1	248·0	−31·4	0	1	480*c*
		2440	0·438	137·9	248·3	−25·7	0	27	
		2440	0·512	144·4	246·9	−31·3	0	5	
		2440	0·532	134·5	241·7	−28·4	10	33	
		2440	0·537	131·6	240·4	−27·3	0	27	
		2442	0·995	112·4	180·6	−22·9	73	282	261*f*
			0·852	66·3	213·2	+15·9			85
			0·911	49·5	212·3	+32·3			517
			0·954	69·3	198·3	+17·2			201
Mar. 9		Centre			(267·2)	(−7·2)	(159)	(940)	(2264)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2440, March 4–17. Return of the great group, No. 2421. A straggling irregular stream of spots, mostly small. On March 7 and the succeeding days the group consists of a fine composite spot, *a*, with a number of small companions.
Group 2441, March 6–7. A few very faint small spots.
Group 2442, March 9–15. A regular spot, *a*, preceded by a few small spots.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
69d.491	CL,HA		0·920	254·1	320·1	−17·5			210
		2443*a*	0·210	223·3	260·9	−15·9	8	24	
		2443	0·205	219·4	260·1	−16·2	3	12	
		2443	0·197	213·9	258·8	−16·6	0	6	
		2443	0·168	207·3	256·9	−15·7	0	4	
		2440	0·312	193·1	256·7	−24·8	5	29	
		2440	0·295	187·1	254·6	−24·2	2	13	
		2440	0·315	178·0	251·6	−25·5	0	9	
		2440*a*	0·368	178·2	251·5	−28·7	53	391	
		2440	0·323	169·1	248·4	−25·6	0	7	
		2440	0·392	169·7	247·7	−29·8	14	125	
		2440	0·403	155·5	241·4	−28·6	2	18	
		2440	0·389	154·0	241·3	−27·5	0	4	
		2440	0·379	151·4	240·6	−26·4	0	5	
		2442	0·912	112·4	185·9	−23·3	0	6	
		2442*a*	0·943	112·5	180·8	−23·5	21	102	577*c*
		2444	0·979	115·5	172·0	−26·4	0	29	
			0·851	43·8	207·9	+32·8			240
			0·895	65·6	195·4	+18·1			394
			0·925	76·0	186·8	+10·0			323
			0·983	68·2	186·6	+19·8			163
Mar. 10		Centre			(252·3)	(−7·2)	(108)	(784)	(1907)
70·152	CL,AB		0·945	254·8	315·7	−16·7			315
I.			0·894	248·0	307·5	−22·9			140
			0·891	290·8	302·9	+14·9			65
		2443*a*	0·332	242·2	261·3	−15·7	12	27	
		2443	0·298	239·5	259·0	−15·6	0	6	251*c*
		2443	0·275	235·3	257·1	−16·0	0	3	
		2440	0·369	212·3	256·1	−25·2	4	15	
		2440	0·329	213·8	255·0	−22·8	0	8	
		2440*a*	0·387	198·6	251·6	−28·6	70	396	874*c*
		2440	0·335	201·5	251·4	−25·2	0	22	
		2440	0·388	189·2	247·7	−29·6	14	142	
		2440	0·366	173·6	241·0	−28·4	4	19	
		2442	0·845	112·4	186·0	−22·7	1	10	
		2442*a*	0·888	112·8	180·6	−23·5	34	100	1402*c*
		2444	0·938	115·1	173·0	−26·0	6	45	
			0·784	34·1	211·5	+34·3			801
			0·820	51·4	198·4	+25·7			418
			0·887	67·7	185·2	+16·0			2048
Mar. 11		Centre			(243·6)	(−7·2)	(145)	(793)	(6314)
1892.				°	°	°			
71d.464	CL,M	2443*a*	0·578	253·7	261·2	−15·2	5	19	
		2440*a*	0·536	225·6	252·0	−28·5	52	352	
		2440	0·481	223·1	247·9	−27·2	0	5	
		2440	0·504	218·7	247·5	−29·8	0	49	
		2440	0·483	219·9	246·8	−28·4	0	9	
		2440	0·450	222·8	246·1	−26·0	0	6	
		2440	0·457	212·2	242·5	−29·6	1	5	
		2440	0·424	211·8	240·9	−28·0	2	15	
		2440	0·399	213·6	240·5	−26·3	0	3	
		2440	0·457	206·0	239·8	−31·2	0	2	
		2445*	0·272	19·1	227·1	+14·9	2	9	
		2445*a*	0·621	52·5	195·6	+16·0	2	12	
		2442	0·673	116·3	185·6	−22·8	3	5	
		2442	0·689	117·2	184·4	−23·8	0	8	
		2442	0·705	117·9	183·3	−24·5	0	13	
		2442	0·736	118·1	180·5	−25·4	0	6	298*c*
		2442*a*	0·736	116·2	180·2	−24·0	21	78	
		2444	0·815	117·4	172·6	−26·4	2	8	
			0·894	69·5	166·6	+14·7			448
Mar. 12		Centre			(226·3)	(−7·2)	(90)	(604)	(746)
72·241	HA,JG		0·936	252·9	286·6	−18·6			98
I.			0·798	306·9	260·0	+23·5			198
		2440	0·650	237·7	253·7	−26·1	0	7	
		2440*a*	0·650	232·1	252·2	−29·1	86	313	
		2440	0·638	228·0	249·7	−31·3	0	3	809*p*
		2440	0·606	226·6	246·8	−30·8	4	18	
		2440	0·552	219·3	240·3	−31·8	5	10	
		2440	0·513	224·1	239·9	−28·2	1	4	
		2440	0·518	215·0	236·5	−31·8	1	17	194*c*
		2440	0·472	217·3	235·1	−28·8	0	2	
		2440	0·439	211·7	231·3	−28·8	0	4	
		2445*a*	0·506	38·9	196·8	+16·3	4	10	
		2442	0·577	120·4	183·5	−23·1	1	13	
		2442	0·601	121·7	182·1	−24·3	2	11	
		2442*a*	0·630	119·4	179·4	−23·8	15	80	362*c*
		2444	0·713	119·8	172·8	−26·0	2	10	
			0·814	61·0	167·6	+18·5			1655
Mar. 13		Centre			(216·1)	(−7·2)	(121)	(502)	(3316)
73·426	CL,HA	2440*a*	0·804	239·8	252·4	−28·3	45	287	
		2440	0·710	233·2	242·1	−30·5	0	6	593*p*

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Group 2443, March 10–12. A short stream of small spots, *n p* Group 2439. The first spot, *a*, is the largest.
Group 2444, March 10–15. A small spot following Group 2442 at a little distance. It is not seen on March 14.
Group 2445, March 12–17. A small spot, *a*, on March 12. Other smaller spots have appeared, *s* and *f*, by March 14.
Group 2445*, March 12. A small spot, seen only on one photograph taken on this day.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
73d·426	CL,HA	2445	0·378	9·6	196·8	+14·7	0	4	
		2445*a*	0·402	9·2	196·7	+16·2	8	45	
		2445	0·403	12·8	195·2	+16·0	0	6	
		2445	0·386	15·7	194·3	+14·7	0	7	513*p*
		2445	0·386	18·2	193·4	+14·4	0	8	
		2445	0·417	18·4	192·7	+16·2	4	10	
		2442	0·404	138·5	183·5	−24·3	0	3	
		2442	0·386	135·5	183·5	−22·7	0	6	
		2442	0·412	137·4	182·7	−24·4	3	25	
		2442	0·407	135·6	182·5	−23·6	0	6	
		2442	0·405	134·8	182·3	−23·3	0	6	
		2442*a*	0·440	133·0	180·0	−24·1	4	20	
		2442*	0·933	113·2	130·7	−24·2	0	28	78*c*
Mar. 14		Centre			(200·5)	(−7·1)	(64)	(467)	(1184)
74·323	CL,AB		0·906	255·5	254·3	−16·2			210
			0·901	286·8	250·2	+11·8			529
I.		2440*a*	0·893	241·8	251·7	−28·3	61	281	
		2440	0·817	236·9	241·3	−30·9	7	20	3003*c*
		2446	0·785	246·9	239·8	−22·5	0	14	
		2445*a*	0·425	339·4	197·5	+16·3	11	32	
		2445	0·395	345·2	194·6	+15·3	1	5	
		2445	0·410	351·7	192·1	+16·8	3	7	
		2442	0·293	164·9	183·8	−23·4	0	29	
		2442	0·325	154·2	179·7	−24·0	5	19	
		2442	0·360	153·1	178·2	−25·6	2	8	
		2444	0·424	142·8	172·1	−26·5	0	4	
			0·851	113·6	130·4	−23·7			313*c*
			0·940	76·3	120·7	+10·3			171
Mar. 15		Centre			(188·6)	(−7·1)	(90)	(419)	(4226)
75·461	CL,HA	2440*a*	0·973	243·2	252·0	−27·7	26	96	
		2440	0·963	240·8	249·5	−30·0	0	40	1108*f*
		2440	0·961	242·7	248·9	−28·2	18	77	
		2446	0·901	247·9	238·4	−23·0	0	14	299*f*
		2446	0·884	246·8	236·0	−23·8	0	16	
		2445*a*	0·543	315·1	197·0	+16·0	3	25	
		2447	0·669	39·9	145·5	+24·6	2	15	
		2448*a*	0·941	77·9	105·3	+ 8·8	44	234	416*f*
Mar. 16		Centre			(173·6)	(−7·1)	(93)	(517)	(1823)
76·459	CL,M		0·943	299·5	224·8	+24·7			189
			0·851	291·1	215·1	+13·8			96
			0·892	314·3	210·7	+34·1			489
1892.				°	°	°			
76d·459	CL, M		0·853	249·6	219·1	−21·1			109
		2440	0·995	242·1	247·4	−28·4	24	178	804*sf*
		2446	0·967	247·2	237·1	−23·8	5	62	417*f*
		2445	0·678	302·5	196·7	+15·6	5	15	
		2445	0·631	305·5	19[illegible]·5	+15·4	0	8	
		2449	0·314	353·3	162·5	+11·0	2	7	
		2447	0·568	22·2	146·8	+24·7	4	14	
		2447	0·578	25·7	144·5	+24·5	0	8	
		2447	0·588	28·2	142·7	+24·3	0	6	
		2450	0·493	36·5	142·7	+16·5	1	13	
		2450	0·512	39·3	140·7	+16·6	0	5	
		2448*a*	0·846	74·2	105·0	+ 9·3	53	284	853*f*
		2451*a*	0·966	104·8	84·1	−16·2	55	453	465*c*
Mar. 17		Centre			(160·4)	(−7·1)	(149)	(1053)	(3422)
77·421	JG,AB		0·946	238·4	219·5	−32·1			1386
			0·943	310·5	208·0	+34·5			662
			0·803	299·6	195·0	+18·7			441
		2452	0·645	247·2	186·8	−19·9	1	6	256*c*
		2452	0·618	243·5	184·1	−21·7	2	9	
		2449	0·426	323·6	162·7	+13·3	1	3	
		2447	0·542	359·5	148·0	+25·7	3	11	
		2447	0·550	5·5	144·3	+26·1	1	7	
		2447	0·543	2·8	146·0	+25·7	4	8	119*c*
		2447	0·523	3·4	145·8	+24·3	1	6	
		2447	0·550	8·9	142·3	+25·8	3	7	
		2447	0·544	14·8	138·9	+24·7	3	8	
		2450	0·424	8·5	143·9	+17·8	4	12	
		2450	0·401	13·5	142·1	+15·9	3	8	
		2448*a*	0·715	68·3	105·4	+ 8·9	41	242	385*c*
		2451*a*	0·877	104·1	85·9	−15·7	49	424	
		2451	0·891	101·2	84·1	−13·1	0	4	409*c*
		2451	0·902	102·7	82·7	−14·4	0	22	
Mar. 18		Centre			(147·7)	(−7·0)	(116)	(777)	(3658)
78·458	CL,AB		0·959	235·5	208·8	−35·0			398
			0·906	303·2	191·8	+26·1			635
			0·852	292·5	188·8	+15·0			1265
			0·796	243·0	186·4	+25·6			789
		2447	0·548	340·7	145·8	+24·2	2	23	289*c*
		2447	0·545	344·7	143·5	+24·7	11	31	
		2448*a*	0·551	60·0	105·5	+ 9·9	49	263	282*c*

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2442*, March 14. A small spot, seen only on one photograph taken on this day.
Group 2446, March 15–17. A small spot, *nf* Group 2439. A second spot is seen on March 16; the first spot has disappeared by March 17.
Group 2447, March 16–24. Several small spots in a short stream. The last spot, *a*, has become much larger than the rest by March 20. The preceding spots diminish and have all disappeared by March 24.
Group 2448, March 16–27. A large regular spot, *a*, with a very small companion on March 21 and 22.
Group 2449, March 17–18. A very small spot on each day—apparently not the same on the two days.
Group 2450, March 17–18. Some small faint spots, *s* of Group 2447.
Group 2451, March 17–29. A fine large composite spot, *a*, showing much detail on March 17 and 18. It tends to throw off small spots on the succeeding days, and has broken up, principally into a pair of large regular spots, *b* and *c*, by March 22; *c* diminishes rapidly and has disappeared by March 27.
Group 2452, March 18. Two very small faint spots.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
78d.458	CL, AB	2451	0·759	101·8	84·7	−13·6	0	7	
		2451*a*	0·765	105·3	84·4	−16·2	64	420	
		2451	0·751	107·9	85·9	−18·0	0	3	1129*c*
		2451	0·789	102·7	82·0	−14·3	0	8	
		2451	0·797	103·6	81·3	−15·0	0	6	
		2453*a*	0·995	64·4	54·1	+24·5	0	48	233*p*
			0·880	116·7	72·9	−26·8			185
			0·954	61·9	67·4	+24·1			148
			0·989	78·8	54·6	+ 9·9			79
Mar. 19		Centre			(134·4)	(−7·0)	(126)	(809)	(5432)
79·472	M, JG		0·934	289·9	186·4	+15·8			751
			0·870	245·2	181·0	−24·9			828
			0·787	299·6	166·6	+18·1			1037
		2447	0·654	322·2	146·8	+24·9	4	39	
		2447*a*	0·606	326·8	141·9	+24·0	12	55	
		2448*a*	0·382	41·6	105·5	+ 9·9	45	250	
		2451*a*	0·608	107·5	83·7	−16·1	49	392	441*c*
		2453*a*	0·942	60·5	56·3	+24·8	0	12	451*c*
		2454*a*	0·989	62·8	43·8	+25·5	15	76	295*c*
		2454*b*	0·996	63·2	39·9	+25·8	28	155	
			0·917	76·3	56·3	+ 9·6			105
			0·980	106·7	40·8	−17·7			512
Mar. 20		Centre			(120·7)	(−6·9)	(153)	(979)	(4420)
80·431	MA, B		0·907	245·3	173·6	−25·3			995
			0·900	292·2	168·3	+16·5			1374
		2447	0·768	309·7	148·3	+24·2	4	16	
		2447	0·754	312·4	145·9	+25·1	1	13	442*c*
		2447*a*	0·708	313·4	142·0	+23·3	15	90	
		2448	0·326	14·9	103·2	+11·4	1	3	
		2448*a*	0·290	5·1	106·6	+ 9·9	66	255	
		2451*a*	0·424	112·7	84·2	−15·7	47	357	
		2451	0·454	108·4	81·8	−14·4	0	14	
		2455	0·791	57·4	63·0	+20·4	0	11	
		2453*a*	0·862	55·1	56·8	+25·3	10	18	390*c*
		2453	0·868	59·1	54·6	+22·5	3	9	
		2454*a*	0·944	59·4	43·7	+25·9	15	48	
		2454	0·961	58·2	40·7	+27·9	0	15	
		2454*b*	0·960	59·5	40·5	+26·7	32	156	1017*c*
		2454*c*	0·988	60·8	32·2	+27·3	25	285	
		2456	0·986	77·2	29·6	+11·3	0	15	80*n*
			0·917	106·1	40·9	−17·5			847
Mar. 21		Centre			(108·1)	(−6·9)	(219)	(1305)	(5145)

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
81d.216	MA, B		0·951	244·6	170·7	−26·2			797
			0·941	289·5	164·6	+15·7			1069
I.		2447	0·857	303·4	149·0	+23·9	3	17	
		2447	0·839	306·1	146·0	+25·1	0	9	536*c*
		2447*a*	0·792	306·5	141·4	+23·1	10	65	
		2448*a*	0·322	331·4	106·7	+ 9·5	58	254	184*c*
		2448	0·317	342·5	103·2	+10·7	0	7	
		2451*b*	0·265	125·0	84·7	−15·4	50	249	
		2451	0·253	114·8	84·1	−12·8	0	13	181*c*
		2451*c*	0·304	126·2	82·9	−17·0	18	113	
		2453*a*	0·781	49·7	56·7	+25·2	0	8	242*c*
		2454	0·839	61·9	46·4	+19·0	6	32	
		2454*a*	0·885	56·1	43·3	+25·7	14	65	
		2454*b*	0·910	56·2	39·9	+26·9	42	206	1529*c*
		2454*d*	0·917	59·0	37·8	+24·9	15	91	
		2454*e*	0·957	58·3	31·0	+27·7	163	571	
		2456	0·951	74·8	28·1	+12·1	0	5	398*c*
			0·836	105·8	40·7	−16·9			921
Mar. 22		Centre			(97·7)	(−6·9)	(379)	(1705	(5857)
82·236	CL, JG		0·979	243·5	164·4	−27·3			251
			0·961	289·0	155·1	+16·0			412
I.		2447	0·901	301·3	141·8	+24·3	0	18	801*c*
		2447*a*	0·895	300·0	141·4	+22·9	6	43	
		2448*a*	0·465	306·5	106·5	+ 9·7	42	225	
		2451*b*	0·151	183·2	84·8	−15·6	49	223	
		2451	0·108	172·4	83·5	−13·1	0	11	
		2451	0·140	163·6	82·0	−14·6	0	2	
		2451	0·194	180·1	84·4	−18·1	0	3	
		2451*c*	0·174	173·9	83·2	−16·8	15	74	
		2453*a*	0·672	38·5	56·8	+25·5	0	7	130*c*
		2453	0·709	46·9	50·2	+23·2	0	5	
		2454*a*	0·788	49·2	42·9	+25·9	7	22	
		2454*b*	0·822	49·5	39·8	+27·3	16	174	1293*c*
		2454*d*	0·832	52·7	37·2	+25·6	34	223	
		2454*f*	0·858	56·6	32·8	+24·0	11	56	
		2454*e*	0·891	53·1	30·4	+28·4	100	613	
		2457	0·694	105·0	40·4	−15·4	0	5	
		2457	0·699	107·6	40·3	−17·2	0	3	
		2457	0·726	105·0	37·8	−15·6	3	10	374*c*
		2457	0·729	103·1	37·4	−14·3	0	2	
		2457	0·746	107·1	36·2	−17·3	0	5	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2453, March 19–23. A small spot, *a*, with a small companion on March 21 and 23.
Group 2454, March 20–April 2. A very large and fine stream of spots covering a great area. The component spots are of very various shapes, and rather widely scattered. The principal spots are *a*, *b*, *c*, *d*, and *e*, and of these *e* is much the largest. *a* has disappeared by March 28. *e* undergoes yet further changes and has completely broken up by March 31, and by April 1 only its largest fragment, *h*, remains of the entire group.
Group 2455, March 21. A small faint spot.
Group 2456, March 21–23. A small faint spot.
Group 2457, March 23–26. Several very small faint spots in a straggling stream on March 23. One faint spot on March 24, 25, and 26.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
82d·236	CL,JG	2456	0·856	71·1	28·5	+12·3	0	6	164c
			0·930	111·0	15·1	−22·0			281
Mar. 23		Centre			(84·3)	(−6·9)	(283)	(1730)	(3706)
83·171	CL,AB	2447a	0·961	295·8	141·3	+22·5	8	33	482c
		2448a	0·616	294·6	106·4	+ 9·2	52	232	142c
I.		2458	0·527	315·4	94·5	+15·7	0	6	
		2458	0·505	320·0	91·7	+16·3	4	8	
		2458	0·490	324·9	89·1	+17·1	0	2	
		2451b	0·272	234·1	85·2	−15·8	42	223	
		2451c	0·265	226·0	83·5	−17·2	10	48	228c
		2451	0·225	227·5	81·9	−15·4	2	7	
		2454	0·685	35·7	45·4	+27·5	12	42	
		2454	0·668	37·5	45·2	+25·9	1	7	
		2454a	0·683	40·3	42·8	+25·4	6	20	
		2454	0·691	42·9	41·0	+24·5	0	6	
		2454b	0·725	40·8	39·8	+27·5	23	170	
		2454d	0·723	44·7	37·9	+25·3	30	262	842c
		2454	0·775	47·1	32·7	+26·6	8	18	
		2454f	0·762	50·0	32·4	+24·1	4	26	
		2454g	0·803	45·4	31·2	+29·2	15	84	
		2454e	0·815	47·5	29·1	+28·4	96	468	
		2457	0·585	108·6	36·9	−16·3	0	11	
		2459a	0·966	114·7	355·8	−25·5	25	199	886c
			0·847	111·7	14·2	−21·9			242
Mar. 24		Centre			(72·0)	(−6·8)	(338)	(1872)	(2822)
84·414	CL,HA	2448a	0·797	287·4	105·9	+ 9·5	50	225	472c
		2458	0·715	300·2	95·4	+15·9	6	18	
I.		2458	0·688	302·3	92·7	+16·2	0	8	222c
		2451b	0·502	250·3	84·9	−15·6	36	197	
		2451c	0·475	247·9	82·8	−16·3	5	34	
		2451	0·454	242·0	80·5	−18·4	2	7	
		2454	0·563	16·8	45·2	+25·9	0	19	
		2454	0·583	17·1	44·5	+27·1	0	5	
		2454	0·601	18·6	43·1	+28·1	3	10	
		2454	0·573	25·6	39·9	+24·5	0	9	
		2454b	0·619	24·1	39·0	+27·9	22	118	
		2454d	0·601	28·1	37·4	+25·6	25	127	1140c
		2454	0·591	31·5	35·9	+23·9	0	16	
		2454	0·630	30·2	34·9	+26·6	0	5	
		2454f	0·626	34·3	32·8	+24·9	3	8	
		2454	0·649	33·0	32·4	+26·8	3	11	
		2454	0·648	36·8	30·3	+25·2	0	19	
1892.				°	°	°			
84d·414	CL,HA	2454g	0·690	32·8	30·3	+29·3	6	59	
		2454	0·676	36·5	28·9	+26·9	10	38	1140c
		2454e	0·715	36·3	26·7	+29·3	62	313	
		2457	0·370	122·3	36·5	−17·7	5	56	
		2459a	0·871	115·5	355·3	−25·5	18	96	1141c
Mar. 25		Centre			(55·6)	(−6·7)	(256)	(1398)	(2975)
85·413	HA,JG		0·881	258·5	104·6	−13·3			309
		2448a	0·909	283·6	105·7	+ 9·4	28	227	349c
		2458	0·851	293·3	96·4	+15·8	7	22	
		2458	0·816	292·9	93·0	+14·3	4	12	244c
		2451b	0·684	254·0	85·2	−15·8	32	200	
		2451c	0·666	252·6	83·7	−16·5	4	21	176c
		2460	0·461	186·6	45·9	−33·9	2	13	
		2460	0·442	183·2	44·0	−32·8	0	5	
		2457	0·210	157·5	37·5	−17·8	7	77	
		2454	0·507	0·4	42·1	+23·7	0	3	
		2454b	0·570	4·6	39·4	+27·8	13	112	
		2454	0·534	2·6	40·8	+25·4	0	6	177c
		2454d	0·543	9·4	36·7	+25·6	18	108	
		2454f	0·547	17·3	32·0	+24·8	2	9	
		2454	0·531	18·5	31·8	+23·5	0	7	
		2454g	0·622	17·2	30·1	+29·8	4	10	
		2454	0·601	21·5	28·0	+27·4	6	24	160c
		2454e	0·630	22·5	26·4	+29·0	43	271	
		2454	0·654	23·7	24·7	+30·3	0	4	
		2459a	0·754	118·2	355·1	−25·5	8	118	
		2459	0·776	120·0	353·4	−27·3	0	9	696p
			0·938	68·7	336·2	+17·3			70
			0·965	95·9	327·1	− 7·4			160
Mar. 26		Centre			(42·3)	(−6·7)	(178)	(1262)	(2341)
86·236	CL,JG		0·816	235·4	78·2	−23·0		1258	195
		2448a	0·974	281·8	106·7	+ 9·9	72	312	423f
I.		2458	0·938	290·4	97·8	+16·5	0	31	
		2458	0·909	291·3	93·2	+16·2	0	18	478c
		2451b	0·809	255·7	85·7	−15·5	56	208	419c
		2454	0·592	342·2	43·3	+27·7	0	23	
		2454b	0·584	347·4	39·8	+28·0	36	120	
		2454	0·548	347·4	39·2	+27·9	0	9	469c
		2454d	0·551	351·8	36·5	+26·2	11	115	
		2454g	0·594	1·7	30·3	+29·6	0	7	
		2454	0·572	6·0	27·6	+27·9	0	18	384c
		2454e	0·589	7·8	26·3	+28·9	60	244	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2458, March 24–27. Three small spots on March 24 : two on the succeeding days.
Group 2459, March 24–31. A large spot with a small companion on March 26 and 27 ; and two on March 28. On March 29 the group consist of three small spots close together in a straight line.
Group 2460, March 26. Two small faint spots.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
86d·236	CL,JG	2454	0·395	8·2	28·2	+16·3	0	7	
		2459a	0·646	122·3	354·4	−25·5	7	79	370c
		2459	0·667	119·8	351·2	−24·5	0	15	
			0·743	117·2	345·1	−24·5			533
			0·893	46·1	340·7	+34·1			200
			0·856	62·2	338·2	+19·6			212
			0·897	95·8	327·3	− 8·2			228
			0·900	107·4	326·7	−18·6			138
Mar. 27		Centre			(31·5)	(−6·7)	(242)	(1206)	(4099)
87·184	M,JG		0·976	288·3	93·6	+16·2			323
		2451b	0·915	255·1	85·9	−16·3	49	190	327c
I.		2461	0·435	241·4	42·6	−18·1	7	34	157c
		2461	0·401	236·7	39·7	−18·9	4	19	
		2454b	0·638	331·4	39·1	+27·8	14	99	
		2454	0·607	329·9	38·6	+25·4	0	10	310c
		2454d	0·600	333·5	36·3	+26·1	3	21	
		2454	0·595	341·6	31·2	+27·8	0	8	144c
		2454	0·412	334·3	29·6	+15·2	0	21	
		2454	0·393	338·6	27·5	+14·9	0	4	
		2454e	0·591	349·6	26·0	+28·8	32	197	252c
		2459a	0·503	131·9	354·6	−25·5	11	61	
		2459	0·514	128·5	352·9	−24·6	0	7	
		2459	0·537	127·5	351·1	−24·9	0	14	
		2462a	0·897	107·4	314·7	−18·5	8	45	298c
		2462	0·922	108·7	311·1	−19·8	0	4	
			0·777	94·0	327·8	− 7·3			149
			0·915	116·4	312·6	−26·8			201
			0·936	73·7	312·1	+12·7			142
Mar. 28		Centre			(19·0)	(−6·6)	(128)	(734)	(2303)
88·445	CL,AB		0·926	246·9	70·7	−23·8			99
			0·868	308·1	53·1	+28·3			147
		2451b	0·986	254·7	83·9	−16·1	28	130	748c
		2461	0·662	250·2	43·1	−17·9	11	41	
		2461	0·638	249·6	41·2	−17·9	0	7	302c
		2461	0·615	249·0	39·4	−17·9	0	10	
		2461	0·606	247·0	38·4	−18·9	4	18	
		2454b	0·762	316·3	39·0	+28·2	9	36	464c
		2454	0·732	314·5	37·6	+25·5	0	4	
		2454e	0·675	329·2	25·7	+29·4	26	195	518c
		2463	0·577	309·5	29·8	+15·7	0	9	
		2464	0·351	211·1	13·8	−23·8	0	4	
		2459	0·348	159·1	354·5	−25·4	8	27	
1892.				°	°	°			
88d·445	CL,AB	2462a	0·732	109·5	315·9	−18·6	13	48	528c
		2462	0·755	109·6	313·8	−19·0	0	20	
		2462	0·787	108·7	310·7	−18·7	3	21	
Mar. 29		Centre			(2·4)	(−6·5)	(102)	(570)	(2806)
89·428	CL,JG		0·917	263·6	56·3	− 8·5			101
		2461	0·809	252·3	43·4	−18·1	0	28	503c
		2454	0·845	307·9	37·7	+27·0	6	25	1141c
		2454	0·768	317·1	28·2	+26·4	17	150	807c
		2459	0·334	191·5	353·6	−25·5	0	11	
		2462a	0·566	113·2	316·3	−18·4	9	41	
		2465	0·635	61·4	314·7	+12·3	0	17	211c
		2465	0·676	63·0	311·4	+12·7	0	21	
			0·949	117·0	276·9	−27·7			644
Mar. 30		Centre			(349·4)	(−6·5)	(32)	(293)	(3407)
90·399	HA,AB		0·938	311·5	35·9	+35·3			81
			0·822	290·5	28·6	+12·8			231
		2461	0·917	252·9	44·3	−19·0	1	7	1018c
		2461	0·904	252·2	41·8	−18·8	0	7	
		2454	0·924	302·8	37·1	+27·0	4	17	1266c
		2454	0·865	309·9	26·2	+29·6	7	46	
		2454h	0·858	308·8	25·9	+28·4	8	47	719c
		2454	0·852	309·9	24·8	+28·9	2	16	
		2463	0·857	293·6	31·3	+16·4	0	6	157c
		2459	0·415	218·4	353·1	−25·4	0	15	
		2459	0·399	215·2	351·3	−25·2	0	6	
		2462a	0·388	122·1	316·5	−17·9	7	29	37c
		2465	0·493	48·0	314·6	+13·3	1	5	
		2465	0·484	51·2	314·0	+11·7	1	4	61c
		2465	0·504	51·6	312·8	+12·4	0	2	
		2465	0·532	53·5	310·7	+12·6	8	19	
		2466a	0·959	100·1	262·4	−11·5	21	152	251c
		2467a	0·996	100·2	250·8	−10·7	11	65	
			0·936	77·4	269·0	+ 9·4			118
			0·945	116·3	264·9	−27·0			949
Mar. 31		Centre			(336·6)	(−6·4)	(71)	(443)	(4888)
91·191	HA,JG		0·959	252·0	40·5	−19·0			768
			0·972	295·4	38·1	+22·8			353
I.			0·918	290·0	29·5	+15·5			127
			0·906	312·0	19·9	+33·6			220
			0·779	247·3	16·5	−21·6			172

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated, are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2461, March 28–31. Several small spots in a straight stream.
Group 2462, March 28–April 1. A short stream of small spots of which the leader, *a*, is the largest.
Group 2463, March 29–31. A small spot on March 29. No spot is seen on March 30. A very small spot on March 31.
Group 2464, March 29. A very small spot.
Group 2465, March 30–April 3. A straggling group composed of a few spots, mostly very small.
Group 2466, March 31–April 11. A large regular spot, *a*, with occasionally a very small companion.
Group 2467, March 31–April 4. A spot much smaller than Group 2466*a*, following it at a distance of about 10°. Two very small spots follow it on April 4.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
91d·191	HA,JG	2454*h*	0·924	304·7	25·8	+28·6	7	42	1378*c*
		2462*a*	0·254	142·8	316·8	−18·0	3	11	
		2465	0·369	28·1	315·9	+12·6	0	9	
		2465	0·413	38·8	310·8	+12·6	7	15	
		2466*a*	0·889	99·8	262·9	−11·6	23	160	} 462*c*
		2467*a*	0·959	99·2	252·0	−10·6	8	33	
		2468*a*	0·945	68·3	258·8	+18·1	10	52	510*c*
			0·886	118·4	264·3	−28·0			669
			0·982	116·7	245·4	−27·4			429
Apr. 1		Centre			(326·1)	(−6·4)	(58)	(322)	(5088)
92·421	JG,AB		0·893	246·3	13·1	−24·0			518
		2454*h*	0·987	301·0	25·4	+29·2	0	37	482*n*
		2469	0·718	247·0	354·7	−20·8	0	21	
		2470	0·660	238·1	348·2	−25·3	0	11	298*c*
		2471	0·273	184·4	311·2	−22·0	2	12	
		2465	0·337	358·6	310·4	+13·3	4	8	} 56*c*
		2465	0·317	0·2	309·8	+12·1	0	4	
		2472	0·734	118·7	264·8	−25·1	0	3	} 499*c*
		2472	0·754	118·3	262·9	−25·2	1	7	
		2472*	0·840	123·7	255·1	−31·5	1	7	236*c*
		2466*a*	0·734	100·1	262·5	−11·7	18	143	
		2466	0·751	101·4	261·1	−12·7	0	4	
		2468*b*	0·833	63·0	258·7	+18·3	10	34	} 263*c*
		2468*c*	0·840	64·2	257·5	+17·6	1	10	
		2467*a*	0·842	98·8	252·2	−10·8	12	41	361*c*
			0·918	119·7	249·3	+24·0			1403
Apr. 2		Centre			(309·9)	(−6·3)	(49)	(342)	(4116)
93·454	CL,M		0·964	246·5	11·9	−24·3			226
			0·815	243·1	349·0	−25·4			731
		2465	0·465	314·4	316·2	+13·1	0	5	
		2465	0·419	324·6	310·7	+13·9	0	6	
		2473	0·430	25·5	285·2	+16·6	1	10	
		2466*a*	0·553	101·6	262·9	−11·6	30	162	
		2468*b*	0·701	55·7	258·9	+18·3	8	21	473*f*
		2467*a*	0·681	98·9	253·3	−10·5	7	20	
			0·716	129·4	255·8	−31·8			358
			0·844	124·1	241·2	−31·8			1091
			0·883	112·7	234·3	−22·9			297
Apr. 3		Centre			(296·3)	(−6·2)	(46)	(224)	(3176)
1892.				°	°	°			
94d·400	CL,JG		0·897	244·3	347·0	−25·7			537
			0·877	258·6	345·1	−13·0			58
		2473	0·387	355·4	285·7	+16·4	1	7	
		2473	0·402	2·7	282·3	+17·4	1	8	
		2474	0·488	9·8	278·3	+22·5	1	4	} 202*c*
		2474	0·478	14·6	276·0	+21·3	2	5	
		2466*a*	0·367	106·9	262·5	−12·0	24	149	
		2466	0·393	107·5	260·9	−12·5	0	2	
		2468*b*	0·564	45·2	258·5	+17·8	6	10	
		2467*a*	0·509	99·9	252·9	−10·3	0	9	
		2467	0·523	101·9	252·1	−11·5	0	4	
		2467	0·535	98·0	251·0	− 9·5	0	2	
		2475	0·687	50·7	248·9	+20·6	2	6	257*c*
			0·795	127·7	234·9	−33·2			309
			0·905	118·7	221·4	−28·5			575
Apr. 4		Centre			(283·4)	(−6·2)	(37)	(206)	(1938)
95·402	M,AB		0·950	244·5	343·1	−26·1			130
			0·925	254·3	338·8	−16·8			330
			0·885	262·3	333·2	− 9·7			59
		2473	0·446	25·8	282·3	+17·7	5	11	
		2466*a*	0·166	131·0	263·3	−12·3	23	110	
		2468*b*	0·445	27·2	258·4	+17·3	0	6	
		2468	0·480	27·9	256·9	+19·1	0	13	
		2476	0·692	57·7	233·1	+16·8	0	7	} 97*c*
		2476	0·712	56·6	232·0	+18·3	1	6	
		2477*a*	0·971	76·7	196·3	+11·3	14	65	485*c*
			0·917	127·8	205·8	−36·9			247
			0·929	68·9	205·8	+17·0			275
Apr. 5		Centre			(270·6)	(−6·1)	(43)	(218)	(1623)
96·396	CL,AB		0·955	245·2	331·0	−25·4			95
			0·877	288·4	315·9	+13·0			169
			0·853	250·1	315·9	−20·1			395
			0·853	290·2	312·8	+13·7			444
		2466*a*	0·153	226·0	263·9	−12·0	21	147	
		2468*b*	0·407	357·2	258·7	+17·8	2	7	
		2476	0·561	44·4	233·2	+18·1	8	27	} 322*c*
		2476	0·586	48·3	230·3	+17·5	4	18	
		2477*a*	0·890	73·0	197·2	+12·1	19	82	} 1011*c*
		2478*a*	0·981	72·0	181·3	+16·3	0	129	
			0·830	64·1	206·2	+17·5			282

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2468, April 1–6. A spot, *a*, which has divided into two portions, *b* and *c*, by April 2. Only *b* is seen on April 3.
Group 2469, April 2. A small faint spot.
Group 2471, April 2. A small spot.
Group 2472*, April 2. A very small faint spot, *s f* Group 2472.
Group 2474, April 4. A pair of very small spots.
Group 2476, April 6–8. A short stream of small spots.
Group 2477, April 6–13. A regular spot, *a*. One very small companion is seen near it on April 9, and a pair on April 11.
Group 2478, April 6–15. A pair of regular spots, *a* and *b*, a considerable distance apart; *b* has disappeared by April 10, but a stream of small spots is seen following *a* on April 11 and the succeeding days, and this stream extends as far from *a* as the former position of *b*; *a* alone remains on April 14 and 15. The group follows Group 2477.
Group 2470, April 2. A small faint spot.
Group 2472, April 2. A pair of very small spots.
Group 2473, April 3–5. A small cluster of very small faint spots.
Group 2475, April 4. A very small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
96d.396	CL,AB		0·896	46·5	205·7	+34·4			296
			0·868	131·1	201·4	−38·2			442
			0·948	112·6	185·4	−23·3			438
Apr. 6		Centre			(257·5)	(−6·0)	(54)	(410)	(3894)
97·487	HA,JG		0·963	286·2	315·1	+13·8			220
			0·926	250·0	311·4	−20·8			248
		2466*a*	0·365	251·0	263·7	−12·4	15	123	118*c*
		2476	0·434	21·7	233·4	+17·8	0	19	
		2476	0·466	29·0	229·4	+18·1	0	4	
		2476	0·478	32·6	227·5	+17·9	0	4	
		2477*a*	0·761	67·7	197·1	+12·5	11	58	351*c*
		2478*a*	0·912	69·1	180·7	+16·3	13	86	1102*c*
		2478*b*	0·965	69·0	171·6	+18·4	4	65	
			0·804	135·0	196·4	−38·8			221
			0·871	44·1	195·8	+34·7			453
			0·873	114·8	182·8	−24·5			414
			0·995	57·1	164·0	+31·7			161
Apr. 7		Centre			(243·1)	(−6·0)	(43)	(359)	(3288)
98·264	CL,JG		0·972	249·0	310·3	−21·8			185
I.		2466*a*	0·530	255·0	264·4	−13·0	12	82	200*c*
		2466	0·522	257·5	264·0	−11·6	0	8	
		2466	0·491	250·8	261·3	−14·5	0	5	
		2476	0·417	6·1	230·1	+18·4	4	12	
		2477*a*	0·647	61·6	197·2	+13·0	7	47	87*c*
		2478*a*	0·836	65·5	180·4	+16·6	14	88	723*c*
		2478*b*	0·910	66·4	171·4	+18·6	9	86	
			0·832	36·5	194·5	+37·2			144
			0·866	58·5	179·5	+23·3			418
			0·918	116·0	166·2	−26·2			229
			0·973	54·6	163·2	+32·3			472
Apr. 8		Centre			(232·8)	(−6·0)	(46)	(328)	(2458)
99·425	CL,M		0·818	242·1	270·8	−26·0			409
		2466*a*	0·732	258·0	264·5	−12·7	13	92	291*c*
		2477*a*	0·466	46·7	197·3	+13·1	14	39	
		2477	0·441	51·2	197·1	+10·6	0	4	
		2477	0·505	42·0	196·9	+16·6	0	3	
		2478*a*	0·689	58·6	179·8	+16·5	15	84	760*c*
		2478*b*	0·778	61·3	171·9	+17·9	2	17	
1892.				°	°	°			
99d.425	CL,M		0·895	49·3	164·0	+31·9			480
			0·835	115·5	161·9	−24·4			432
			0·955	102·6	144·2	−13·7			186
Apr. 9		Centre			(217·5)	(−5·8)	(44)	(239)	(2558)
100·420	AB,JG		0·855	298·7	257·5	+20·8			346
			0·818	239·5	257·1	−28·0			956
		2466*a*	0·865	258·8	264·5	−12·6	17	94	288*f*
		2477*a*	0·348	18·1	197·9	+13·5	9	32	155*c*
		2478*a*	0·551	46·7	179·6	+16·9	14	95	563*f*
		2479*a*	0·676	114·3	163·3	−20·6	5	23	195*c*
		2479	0·687	113·4	162·3	−20·2	2	12	
		2479	0·707	112·5	160·5	−19·9	1	16	
		2480	0·861	102·7	144·6	−13·9	0	16	338*c*
		2480	0·872	101·7	143·3	−13·1	0	11	
			0·654	120·6	166·4	−24·0			201
			0·818	44·7	162·1	+31·3			385
			0·770	73·3	156·2	+. 8·9			129
			0·906	61·0	145·0	+23·2			290
Apr. 10		Centre			(204·3)	(−5·8)	(48)	(299)	(3846)
101·528	M,JG		0·942	294·0	256·0	+20·3			515
3			0·876	239·8	249·3	−29·0			1108
			0·767	225·3	232·3	−36·8			248
			0·743	300·5	231·7	+17·9			166
		2466*a*	0·963	258·2	264·6	−12·9	17	99	570*nf*
		2477*a*	0·360	336·1	198·2	+13·5	7	19	
		2477	0·328	338·1	196·8	+12·0	1	5	
		2477	0·311	338·3	196·3	+11·1	1	4	
		2478*a*	0·418	24·5	179·2	+16·7	10	73	
		2478	0·441	28·5	176·9	+17·2	0	8	
		2478	0·473	31·3	174·7	+18·3	4	15	
		2478	0·488	36·1	172·1	+17·7	1	10	
		2479*a*	0·483	122·8	164·0	−20·3	7	22	
		2479	0·523	119·7	160·8	−20·0	2	14	
		2480	0·698	103·8	145·5	−13·7	9	26	309*c*
		2480	0·744	103·8	141·6	−14·1	0	13	
		2481*a*	0·994	78·1	107·4	+11·1	23	233	155*p*
			0·801	55·6	143·9	+22·9			289
Apr. 11		Centre			(189·6)	(−5·7)	(82)	(541)	(3360)
102·404	CL,AB		0·969	259·2	254·5	−11·9			157
			0·916	240·6	244·0	−29·2			857
			0·836	229·2	230·1	−36·6			376

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2479, April 10–18. A short stream of small spots. The leader, *a*, is the largest, and remains alone on April 15, and after April 16.
Group 2480, April 10–14. A group similar to but slightly smaller than Group 2479, following it *n*.
Group 2481, April 11–23. A large regular spot, *a*, with a companion *n p* on April 12 and 13. A second companion is also seen *f* on April 14, and both companions have broken up in a cluster of very small spots by April 15; *a* remains alone by April 17.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
102d.402	CL,AB	2477*a*	0·469	313·9	198·5	+13·7	6	18	
		2478*a*	0·384	357·0	179·4	+16·9	10	48	
		2478	0·403	6·3	175·5	+17·9	1	14	
		2478	0·400	14·2	172·4	+16·5	0	25	
		2478	0·428	13·5	172·2	+18·9	0	10	
		2479*a*	0·343	138·6	164·3	−20·3	18	80	
		2479	0·372	132·9	161·4	−20·0	6	53	
		2480	0·550	106·5	143·7	−13·7	3	14	
		2480	0·599	106·3	142·0	−14·2	3	29	
		2481	0·956	74·3	107·5	+13·2	0	46	432*c*
		2481*a*	0·959	76·5	106·5	+11·3	30	242	
Apr. 12		Centre			(178·2)	(−5·6)	(77)	(579)	(1822)
103·175	M,AB		0·906	239·4	232·0	−30·0			1096
			0·922	295·3	230·8	+20·7			284
I.		2477*a*	0·591	302·8	198·6	+13·8	0	7	
		2478*a*	0·429	332·7	179·8	+16·9	17	42	
		2478	0·427	342·9	175·6	+18·4	0	4	
		2478	0·428	352·1	171·6	+19·4	0	4	
		2482	0·586	4·4	165·0	+30·0	0	11	
		2482	0·594	8·1	162·5	+30·3	3	15	
		2482	0·615	10·5	160·5	+31·5	15	36	
		2479*a*	0·257	167·9	164·7	−20·1	19	60	
		2479	0·263	156·3	161·6	−19·5	0	9	
		2479	0·286	153·3	160·2	−20·3	2	6	
		2480	0·403	111·5	145·4	−13·6	3	9	
		2480	0·456	110·6	142·0	−14·2	0	10	
		2481	0·891	71·6	107·8	+13·5	6	35	445*c*
		2481*a*	0·901	74·2	105·9	+11·6	48	260	
Apr. 13		Centre			(168·0)	(−5·6)	(113)	(508)	(1825)
104·402	CL,AB		0·889	241·2	212·5	−28·0			312
			0·900	232·2	212·3	−36·1			200
			0·841	293·3	204·2	+16·2			444
			0·777	222·9	193·3	−38·7			328
		2478*a*	0·583	310·1	178·5	+17·2	7	41	336*c*
		2482	0·617	340·6	164·5	+30·2	0	24	
		2482	0·605	344·8	161·3	+30·3	0	12	419*c*
		2482	0·615	349·9	158·0	+31·8	2	70	
		2479*a*	0·343	220·1	164·4	−20·4	11	33	
		2479	0·329	218·5	163·3	−20·1	0	6	
		2479	0·288	214·2	160·6	−19·0	0	4	
		2479	0·309	209·4	160·1	−20·9	0	17	
1892.				°	°	°			
104d.402	CL,AB	2480	0·218	137·0	142·0	−14·5	0	9	
		2480	0·222	129·8	140·7	−13·5	1	7	
		2481	0·738	66·2	107·0	+13·4	2	18	
		2481*a*	0·744	69·4	105·7	+11·4	33	188	754*c*
		2481	0·772	70·8	103·0	+11·1	0	35	
			0·900	121·9	88·0	−30·9			202
			0·915	108·2	84·4	−18·8			329
Apr. 14		Centre			(159·8)	(−5·4)	(56)	(464)	(3324)
105·464	AB,JG		0·927	239·2	205·0	−30·5			1016
			0·900	287·4	199·4	+13·1			536
		2478*a*	0·733	299·7	179·3	+17·2	7	20	321*n*
		2479*a*	0·509	238·0	165·0	−20·4	7	29	118*c*
		2482	0·696	325·5	164·7	+30·1	1	9	
		2482	0·676	329·6	161·0	+30·6	3	10	228*c*
		2482	0·662	334·0	157·5	+31·3	7	19	
		2481	0·594	53·9	107·9	+15·7	3	7	
		2481	0·581	56·9	107·8	+13·8	3	13	
		2481*a*	0·581	62·0	106·3	+11·2	30	194	273*c*
		2481	0·606	64·8	104·0	+10·4	4	15	
		2483	0·959	65·8	68·0	+21·4	14	117	601*c*
Apr. 15		Centre			(137·7)	(−5·4)	(79)	(433)	(3093)
106·298	M,JG		0·958	287·6	198·0	+15·1			138
			0·863	247·3	186·2	−22·2			203
I.			0·890	225·1	184·6	−41·8			208
			0·802	236·0	177·1	−30·0			89
			0·806	298·3	175·5	+18·9			898
			0·762	319·7	162·1	+31·1			359
		2479*a*	0·653	244·4	165·9	−20·5	15	48	
		2479	0·649	242·0	165·1	−21·8	0	5	179*c*
		2479	0·637	245·5	164·9	−19·5	0	2	
		2481*a*	0·440	49·9	107·1	+11·4	43	177	360*c*
		2481	0·465	54·1	104·6	+10·8	4	10	
		2484*a*	0·615	128·5	94·6	−26·9	0	12	199*c*
		2484	0·641	126·7	92·1	−26·8	0	11	
		2483	0·891	62·4	69·2	+21·6	10	51	528*c*
		2483	0·907	62·4	67·0	+22·3	0	42	
Apr. 16		Centre			(127·1)	(−5·3)	(72)	(358)	(3161)
107·239	M,JG		0·948	248·8	186·2	−21·7			195
			0·942	226·1	182·2	−42·9			157
I.			0·921	240·6	180·8	−29·1			184
			0·894	293·4	173·9	+18·2			677

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2482, April 13–15. A number of small spots in an irregular stream.
Group 2483, April 15–20. A large composite spot on April 15. Two spots on April 16. A number of small spots in a compact cluster on April 17 and 18. The cluster has become a short straight stream by April 19.
Group 2484, April 16–25. A number of spots in a straight stream. The leader, *a*, moves forward in longitude on the succeeding days and becomes a large regular spot. The last spot, *b*, has also become a large regular spot by April 18. The intermediate spots have nearly all disappeared by April 21. A fresh stream proceeding from *b* and at right angles to the first has appeared by April 22. The entire group has broken up into a long irregular straggling stream by April 24. One large spot alone remains by April 25.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day.)	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
107d·239	M, JG		0·849	312·4	161·5	+31·4			522
		2479*a*	0·790	247·9	165·6	−20·6	8	55	177*c*
I.		2481*a*	0·316	24·3	106·8	+11·5	48	186	
		2484*a*	0·479	141·2	94·8	−26·8	1	15	
		2484	0·496	140·7	93·8	−27·4	0	6	
		2484	0·522	138·3	91·4	−27·7	2	8	
		2484	0·557	138·5	89·5	−29·3	0	5	
		2485	0·594	107·0	78·7	−14·2	0	5	
		2483	0·791	57·0	69·0	+21·8	15	62	
		2483	0·806	54·6	68·5	+24·2	0	4	
		2483	0·795	59·0	67·9	+20·6	0	53	794*c*
		2483	0·815	57·8	66·4	+22·2	0	31	
			0·912	107·0	48·4	−17·6			222
			0·953	74·4	44·1	+13·1			305
			0·976	63·0	41·1	+24·9			382
Apr. 17		Centre			(114·4)	(−5·2)	(74)	(430)	(3615)
108·469	HA, AB		0·946	289·7	166·2	+16·7			556
			0·928	306·3	158·4	+30·9			469
			0·870	241·8	157·1	−26·9			269
		2479*a*	0·921	250·1	165·2	−20·3	13	34	342*f*
		2481*a*	0·320	331·8	106·8	+11·3	22	173	73*c*
		2484*a*	0·369	173·5	95·3	−26·6	10	33	
		2484	0·382	162·9	90·8	−26·4	3	25	
		2484*b*	0·414	162·6	90·0	−28·2	23	107	
		2485	0·339	120·2	80·4	−14·7	0	3	
		2483	0·611	44·7	70·7	+21·1	4	10	
		2483	0·636	46·0	68·6	+21·7	5	30	
		2483	0·623	49·1	68·1	+19·6	0	18	239*c*
		2483	0·649	48·3	66·8	+21·2	0	19	
		2486	0·935	77·3	30·4	+ 9·9	0	51	
		2486	0·951	76·5	27·7	+11·1	0	13	482*c*
		2486	0·983	76·5	20·3	+12·2	8	131	
			0·910	59·6	38·3	+24·9			488
Apr. 18		Centre			(98·0)	(−5·1)	(88)	(647)	(2918)
109·554	CL, JG		0·954	244·7	156·5	−25·7			497
			0·978	302·1	156·3	+29·9			205
			0·851	257·3	142·1	−13·5			176
			0·859	304·2	120·4	+19·6			176
		2481*a*	0·475	305·8	106·7	+11·4	22	184	167*c*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
109d·554	CL, JG	2484*a*	0·410	206·2	95·3	−26·5	18	107	
		2484	0·376	199·3	91·6	−25·7	0	8	
		2484	0·383	192·8	89·1	−26·9	2	12	204*c*
		2484*b*	0·403	191·4	88·8	−28·2	24	94	
		2484	0·429	188·8	88·0	−30·1	0	5	
		2485	0·161	171·8	82·3	−14·3	2	7	
		2485	0·179	145·5	77·7	−13·5	3	11	
		2485	0·225	147·9	76·6	−16·0	6	20	
		2483	0·496	25·2	70·6	+21·6	0	13	
		2483	0·517	28·6	68·3	+22·0	2	18	
		2486	0·809	73·6	31·9	+10·0	4	20	
		2486	0·814	77·0	30·8	+ 7·5	0	28	
		2486	0·852	74·1	27·4	+10·7	7	75	
		2486	0·858	75·5	26·5	+ 9·6	7	20	485*c*
		2486	0·880	76·7	23·8	+ 9·1	0	32	
		2486	0·886	73·6	23·6	+12·0	0	14	
		2486	0·906	74·3	20·9	+11·9	24	115	
			0·882	53·3	30·1	+28·8			444
			0·946	113·2	12·4	−23·6			219
Apr. 19		Centre			(83·7)	(−5·1)	(121)	(783)	(2573)
110·401	CL, M		0·931	300·7	135·4	+26·2			257
			0·846	307·7	121·5	+27·8			95
I.		2481*a*	0·620	295·4	107·2	+11·3	34	185	320*c*
		2484*a*	0·525	224·4	96·6	−26·5	15	123	
		2484	0·514	221·7	95·0	−27·1	0	4	224*c*
		2484*b*	0·470	210·9	88·4	−28·5	11	101	154*c*
		2485	0·255	231·1	84·3	−14·1	0	2	
		2485	0·230	228·0	82·6	−13·8	14	54	
		2485	0·216	221·4	80·9	−14·2	6	26	
		2485	0·212	213·1	79·4	−15·1	7	18	
		2485	0·183	213·2	78·4	−13·8	4	17	
		2483	0·450	2·0	71·5	+21·6	0	4	
		2483	0·456	4·7	70·2	+21·9	0	9	
		2483	0·462	9·4	67·9	+22·0	0	6	
		2486	0·673	72·1	32·4	+ 8·0	7	36	
		2486	0·682	69·5	32·2	+10·0	1	15	
		2486	0·719	73·9	28·5	+ 7·9	0	15	
		2486	0·731	71·2	28·0	+10·0	11	43	938*c*
		2486	0·748	73·1	26·2	+ 9·1	25	145	
		2486	0·780	74·0	23·3	+ 9·1	0	23	
		2486	0·791	71·0	22·9	+11·7	16	124	
		2486	0·813	71·7	20·7	+11·7	16	133	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2485, April 17–26. A very small spot on April 17 and 18. A fine stream of small spots on April 19. The leader, *a*, has become a large composite spot by April 21, and by April 22 the group consists principally of a pair of large spots, *a* and *b*. The entire group seems to have coalesced to form one very large composite spot upon April 24, but *a* and *b* are again seen separately on April 25.
Group 2486, April 18–29. A very large and complicated stream of spots.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
110d.401	CL,M		0·738	46·0	36·2	+26·7			619
I.			0·902	52·7	16·5	+30·3			652
			0·881	113·4	11·3	−23·0			239
Apr. 20		Centre			(72·5)	(−5·0)	(167)	(1083)	(3498)
111·405	HA,JG	2481*a*	0·769	289·0	107·0	+11·2	27	145	365*c*
		2484*a*	0·669	235·5	97·0	−26·0	9	102	
		2484	0·619	231·5	92·0	−26·7	4	9	290*c*
		2484*b*	0·586	226·2	87·8	−28·1	6	67	
		2485*a*	0·447	249·7	84·7	−13·2	29	206	
		2485	0·417	246·7	82·4	−13·9	0	14	
		2485	0·389	250·2	81·2	−12·0	6	27	
		2485	0·402	242·1	80·8	−15·3	1	6	
		2485*b*	0·395	244·3	80·8	−14·3	10	61	230*c*
		2485	0·374	246·8	79·9	−12·9	0	4	
		2485	0·361	243·5	78·6	−13·8	8	39	
		2485	0·357	237·2	77·4	−15·7	0	4	
		2485	0·354	233·2	76·4	−16·7	0	2	
		2487*a*	0·458	206·5	72·7	−28·8	12	40	
		2487	0·469	201·6	70·8	−30·5	3	17	
		2487	0·436	201·0	69·5	−28·6	9	40	150*c*
		2487	0·470	198·3	69·2	−31·1	9	49	
		2487	0·458	193·5	66·4	−31·1	4	22	
		2488	0·345	155·6	50·4	−23·0	1	3	
		2486	0·488	62·3	33·5	+ 8·7	5	19	
		2486	0·500	60·6	33·2	+ 9·8	0	3	
		2486	0·525	62·3	31·3	+ 9·8	7	24	
		2486	0·574	61·0	28·6	+11·9	0	5	
		2486	0·563	66·0	28·0	+ 9·1	29	178	
		2486	0·605	64·8	25·6	+10·9	0	6	246*c*
		2486	0·615	68·8	24·0	+ 8·9	3	17	
		2486	0·623	67·1	23·8	+10·1	5	29	
		2486	0·649	61·6	23·4	+14·1	0	5	
		2486	0·648	65·1	22·5	+11·9	31	269	
			0·855	46·2	12·1	+33·0			621
			0·765	117·1	11·5	−23·6			149
			0·946	116·4	348·4	−26·5			219
Apr. 21		Centre			(59·3)	(−4·8)	(218)	(1412)	(2270)
112·412	M,AB	2481*a*	0·891	285·3	107·0	+11·3	19	142	461*c*
		2484*a*	0·806	241·1	97·2	−25·4	10	80	188*c*
1892.				°	°	°			
112d.412	M,AB	2484	0·749	237·9	91·1	−26·8	0	3	
		2484	0·759	230·8	89·9	−32·2	24	73	
		2484	0·755	228·4	88·5	−33·6	0	16	
		2484	0·743	230·9	88·4	−31·5	6	24	383*c*
		2484	0·732	233·1	88·1	−29·6	2	48	
		2484*b*	0·720	235·0	87·7	−27·9	6	39	
		2484	0·728	231·2	87·1	−30·7	3	9	
		2484	0·712	230·1	85·4	−30·9	0	7	
		2485*a*	0·654	255·6	86·4	−13·0	49	266	
		2485	0·628	254·2	84·3	−13·6	3	8	
		2485*b*	0·573	253·0	80·2	−13·6	33	234	
		2487*a*	0·583	223·5	73·3	−29·2	23	95	
		2487	0·545	222·6	70·6	−27·9	23	109	
		2487	0·554	216·3	68·4	−30·9	5	34	
		2487	0·528	215·9	66·8	−29·8	0	4	
		2487*b*	0·540	212·5	65·8	−31·6	25	82	
		2489	0·319	210·7	56·0	−20·6	0	2	
		2486	0·345	42·1	32·5	+10·1	4	20	
		2486	0·361	45·9	30·8	+ 9·9	11	38	
		2486	0·377	51·1	28·8	+ 9·1	21	104	
		2486	0·391	53·5	27·5	+ 8·9	3	9	
		2486	0·393	55·6	27·0	+ 8·2	7	16	
		2486	0·443	52·5	25·1	+11·1	0	8	
		2486	0·461	56·5	23·1	+10·3	17	64	
		2486	0·496	54·4	21·7	+12·4	45	260	
		2490	0·571	123·2	15·0	−22·3	4	12	
		2490	0·632	121·2	10·2	−23·0	3	14	
			0·869	117·4	347·0	−26·1			480
			0·866	106·4	346·1	−16·6			266
			0·896	70·3	345·2	+15·3			80
Apr. 22		Centre			(46·0)	(−4·8)	(346)	(1820)	(1858)
113·457	CL,AB	2481*a*	0·975	283·0	107·8	+11·5	0	128	239*c*
		2484*a*	0·907	243·6	96·6	−25·9	15	101	
		2484	0·867	235·3	89·4	−33·2	19	99	
		2484*b*	0·846	239·1	87·6	−28·4	0	29	814*c*
		2484	0·830	231·8	84·7	−34·1	0	24	
		2484	0·825	236·1	84·5	−30·3	0	43	
		2485*a*	0·821	257·2	87·3	−13·2	31	382	
		2485	0·782	255·6	83·3	−14·1	0	39	
		2485	0·770	257·6	82·4	−12·6	6	25	738*c*
		2485*b*	0·742	256·2	79·8	−13·4	44	177	
		2485	0·717	255·6	77·6	−13·6	0	28	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2487, April 21–26. A number of small spots arranged in a horse-shoe form, and following Group 2484. The more northern branch is the smaller and has disappeared by April 25; the more southern branch tends to increase in size, and consists, on April 22 and the succeeding days, of a pair of spots, *a* and *b*, with a few small spots between them. *b* has broken up by April 26.
Group 2488, April 21. A very small spot.
Group 2489, April 22. A very small spot.
Group 2490, April 22–30. A number of small spots in a straight stream. A spot, *a*, in the middle of the stream has become a large regular spot by April 25. *a* alone remains by April 29.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
113d·457	CL, AB	2487*a*	0·724	232·8	73·5	−29·5	21	86	
		2487	0·706	232·4	71·9	−29·1	3	28	
		2487	0·690	233·9	71·1	−27·7	0	58	708*c*
		2487	0·682	228·2	68·3	−30·7	0	18	
		2487*b*	0·661	224·3	65·1	−32·2	17	107	
		2493	0·290	212·6	41·7	−18·7	0	8	
		2486	0·249	1·3	28·9	+ 9·7	23	219	
		2486	0·240	14·6	28·7	+ 8·6	0	53	183*c*
		2486	0·320	26·2	23·9	+12·0	0	37	
		2486	0·308	31·6	22·8	+10·5	7	39	207*c*
		2486	0·345	31·2	21·7	+12·5	26	213	
		2490	0·393	142·1	17·1	−22·5	0	54	
		2490	0·464	132·9	10·7	−22·7	39	199	
		2491	0·526	47·6	8·4	+16·4	20	120	
		2491	0·564	53·3	4·3	+15·5	14	46	368*c*
		2491	0·592	51·2	3·4	+17·6	0	26	
		2494	0·747	62·4	348·6	+16·8	0	7	45*c*
		2492*a*	0·978	107·2	313·5	−17·8	25	281	355*f*
Apr. 23		Centre			(32·2)	(−4·7)	(310)	(2674)	(3657)
114·506	HA, JG	2484*a*	0·977	244·4	96·6	−26·0	11	103	335*c*
		2484	0·941	238·0	87·6	−31·6	23	212	
		2484	0·917	236·3	83·0	−32·6	0	18	
		2484	0·915	238·3	82·9	−30·7	0	14	480*f*
		2484	0·909	234·2	81·3	−34·3	1	15	
		2485	0·898	258·1	82·3	−12·7	67	814	711*c*
		2487	0·840	237·9	72·7	−29·2	29	150	
		2487	0·833	239·7	72·3	−27·6	0	11	
		2487	0·808	239·4	69·6	−27·2	2	15	
		2487	0·804	234·1	67·6	−31·1	2	10	609*c*
		2487	0·792	236·9	67·2	−28·6	0	5	
		2487	0·780	232·1	64·5	−31·8	31	160	
		2493	0·461	233·4	41·4	−20·1	4	18	44*c*
		2486	0·345	315·6	32·4	+ 9·8	17	138	
		2486	0·344	320·4	31·1	+10·9	6	23	
		2486	0·328	327·6	28·6	+11·5	0	5	
		2486	0·293	325·7	27·9	+ 9·4	16	79	
		2486	0·274	338·2	24·2	+10·1	0	76	
		2486	0·288	348·1	21·8	+11·7	20	160	
		2490	0·302	182·2	19·0	−22·1	6	32	
		2490	0·307	179·9	18·2	−22·4	0	5	
		2490	0·306	171·1	15·6	−22·1	4	21	188*c*
		2490*a*	0·327	163·4	12·5	−22·8	19	130	
		2490	0·341	153·6	8·9	−22·2	6	59	
1892.				°	°	°			
114·506	HA, JG	2491	0·389	19·0	10·7	+16·9	32	149	
		2491	0·394	26·0	8·0	+16·2	17	124	
		2491	0·408	30·2	6·0	+16·1	2	24	
		2491	0·430	34·5	3·7	+16·3	6	87	164*c*
		2491	0·423	41·3	1·6	+14·0	0	20	
		2491	0·429	40·5	1·6	+14·6	0	13	
		2494	0·567	51·5	350·8	+16·6	0	6	
		2494	0·618	54·0	346·8	+17·4	0	33	77*c*
		2495	0·799	58·2	331·5	+21·7	0	9	
		2492*a*	0·907	107·8	313·2	−18·1	21	177	505*f*
Apr. 24		Centre			(18·3)	(−4·6)	(342)	(2915)	(3113)
115·663	CL, AB		0·908	298·4	63·3	+23·4			784
		2485*a*	0·994	256·9	87·8	−13·6	45	472	
		2485*b*	0·970	257·5	79·9	−13·8	63	478	2078*c*
		2484	0·991	239·1	86·4	−31·2	26	203	791*nf*
		2487*a*	0·941	241·2	72·7	−28·6	21	142	
		2487	0·906	240·1	66·6	−28·9	1	12	1539*c*
		2487*b*	0·891	236·0	63·6	−32·2	20	112	
		2486	0·595	295·0	36·2	+10·8	0	11	
		2486	0·568	293·1	34·8	+ 9·0	3	9	
		2486	0·556	295·9	33·4	+10·2	32	237	
		2486	0·531	295·0	32·0	+ 9·0	0	10	
		2486	0·524	299·7	30·5	+11·0	3	13	
		2486	0·497	296·9	29·5	+ 8·9	43	220	
		2486	0·481	303·0	27·2	+11·0	11	47	530*c*
		2486	0·444	300·4	25·7	+ 8·8	5	30	
		2486	0·443	304·8	24·6	+10·4	12	147	
		2486	0·439	309·9	24·1	+12·8	0	9	
		2486	0·424	308·3	22·7	+10·9	6	28	
		2486	0·428	311·6	22·0	+12·2	17	95	
		2490	0·412	221·6	20·1	−22·2	7	26	
		2490	0·359	214·7	15·6	−21·5	2	13	
		2490*a*	0·355	209·4	13·8	−22·4	19	117	
		2490	0·325	200·3	10·0	−22·2	0	7	
		2490	0·323	196·6	8·7	−22·4	4	15	
		2491*a*	0·403	337·3	12·3	+17·3	34	266	
		2491	0·368	347·0	7·9	+16·5	14	85	
		2491	0·371	351·2	6·4	+16·9	0	4	
		2491	0·374	354·4	5·2	+17·3	8	45	521*c*
		2491	0·390	355·5	4·8	+18·3	0	6	
		2491	0·381	357·9	3·8	+17·8	4	13	
		2491	0·327	359·1	3·3	+14·6	0	7	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2491, April 23–30. A number of spots in a straight stream, following Group 2486. The group increases rapidly in size, and on April 28, the leader, *a*, is a large, regular spot. The following spots gradually die out, and by April 30 *a* remains alone.
Group 2492, April 23–May 5. A large, regular spot, *a*, with a small companion close to it on April 29, 30, and May 2 and 3.
Group 2493, April 23–24. A small faint spot.
Group 2494, April 23–May 1. An irregular group which has become a stream by April 25. The following spots gradually diminish, and have disappeared by April 28. On April 29, several new spots are seen round the leading spot, *a*. On May 1, *a* alone is seen.
Group 2495, April 24–27. An extremely faint irregular spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
115d·663	CL,AB	2491	0·362	359·8	3·1	+16·6	11	29	
		2491	0·341	360·0	3·0	+15·4	0	3	
		2494*a*	0·399	25·8	352·6	+16·6	2	12	
		2494	0·410	30·0	350·7	+16·3	0	5	377*c*
		2494	0·436	33·9	348·3	+16·8	9	18	
		2494	0·481	35·6	345·9	+18·6	0	9	
		2494	0·454	38·8	345·8	+16·3	0	6	
		2492*a*	0·769	110·1	313·7	−18·3	44	297	476*c*
			0·849	111·3	305·7	−20·4			653
Apr. 25		Centre			(3·0)	(−4·5)	(466)	(3258)	(7749)
116·397	HA,AB		0·946	299·3	59·7	+25·9			837
			0·869	256·0	53·7	−14·3			158
			0·831	291·4	46·5	+15·0			205
			0·813	307·0	39·6	+26·2			376
		2485*b*	0·992	256·7	76·7	−13·7	25	309	309*c*
		2487	0·980	243·0	72·4	−27·3	0	36	
		2487*a*	0·980	241·4	72·5	−28·9	18	110	479*f*
		2487	0·959	240·8	66·7	−29·2	0	7	
		2487	0·960	236·0	66·7	−33·9	0	7	
		2487	0·939	236·9	62·2	−32·6	9	37	526*c*
		2486	0·721	289·7	37·0	+10·9	0	11	
		2486	0·701	287·3	35·9	+ 8·8	1	22	
		2486	0·688	289·7	34·4	+10·0	40	206	
		2486	0·652	291·9	31·2	+10·6	9	41	
		2486	0·625	287·5	30·2	+ 7·3	1	10	
		2486	0·631	290·9	30·0	+ 9·5	32	242	
		2486	0·601	290·7	27·9	+ 8·6	1	14	884*c*
		2486	0·604	294·6	27·3	+10·9	17	78	
		2486	0·584	292·8	26·3	+ 9·4	0	16	
		2486	0·587	294·8	26·1	+10·6	0	3	
		2486	0·567	295·7	24·6	+10·4	25	152	
		2486	0·563	299·8	23·3	+12·4	1	6	
		2486	0·545	299·4	22·3	+11·7	20	103	
		2490	0·522	233·1	20·1	−22·2	2	9	
		2490	0·464	229·9	15·7	−21·4	0	13	
		2490*a*	0·449	227·2	14·1	−21·9	16	119	
		2491*a*	0·485	318·9	12·8	+17·2	49	257	
		2491	0·455	322·7	10·1	+16·9	7	28	
		2491	0·443	324·9	8·8	+16·9	4	17	
		2491	0·418	325·1	7·7	+15·7	6	26	
		2491	0·427	328·5	6·8	+17·1	0	3	
1892.				°	°	°			
116d·397	HA,AB	2491	0·414	332·2	5·0	+17·1	12	45	
		2491	0·378	329·6	4·8	+14·7	0	9	
		2491	0·413	337·6	2·9	+18·0	0	7	
		2491	0·388	335·8	2·9	+16·3	10	33	
		2491	0·366	339·2	1·1	+15·6	0	3	
		2494*a*	0·355	0·8	353·1	+16·3	7	20	
		2494	0·362	5·7	351·3	+16·6	0	4	
		2494	0·379	9·1	349·8	+17·5	2	7	
		2494	0·374	12·4	348·6	+17·0	2	10	
		2492*a*	0·660	112·7	313·7	−18·1	46	303	325*c*
		2495	0·740	113·2	307·2	−20·0	0	5	363*c*
Apr. 26		Centre			(353·4)	(−4·4)	(362)	(2328)	(4462)
117·522	M,JG		0·897	307·1	34·4	+30·4			454
			0·776	316·6	16·8	+30·9			213
		2486	0·852	285·0	35·1	+10·3	30	288	
		2486	0·832	283·7	33·2	+ 8·9	20	95	
		2486	0·834	286·2	32·9	+10·9	2	33	
		2486	0·808	284·2	30·7	+ 8·8	6	42	
		2486	0·800	285·6	29·8	+ 9·8	6	83	
		2486	0·768	287·8	26·4	+10·7	8	76	1020*c*
		2486	0·751	290·3	24·4	+12·1	0	13	
		2486	0·735	288·1	23·5	+10·2	15	111	
		2486	0·719	289·2	22·0	+10·6	0	5	
		2486	0·721	290·9	21·8	+11·8	0	18	
		2490	0·672	236·8	16·7	−25·0	0	8	221*c*
		2490*a*	0·629	239·1	14·0	−22·3	11	88	
		2491*a*	0·648	302·5	13·2	+16·8	54	336	228*c*
		2491	0·587	305·7	8·1	+16·2	0	4	
		2491	0·558	310·0	5·0	+17·1	10	63	206*c*
		2491	0·526	311·3	2·7	+16·3	6	16	
		2494*a*	0·441	323·9	354·2	+16·7	10	42	
		2494	0·415	336·5	348·5	+18·1	1	9	
		2494	0·392	347·8	343·5	+18·2	0	6	
		2492*a*	0·476	122·2	313·5	−18·6	54	330	
		2495	0·580	120·2	306·2	−20·6	0	6	
		2496*a*	0·986	113·4	257·3	−23·8	0	224	349*p*
Apr. 27		Centre			(338·5)	(−4·3)	(233)	(1896)	(2691)
118·430	M,JG		0·913	241·9	31·2	−27·3			133
			0·922	303·6	27·2	+28·6			639
I.			0·833	312·9	12·0	+31·6			158
			0·799	319·7	4·9	+34·2			309

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2496, April 27–May 10. A large spot, *a*, is seen on April 27. A smaller spot, *b*, appears on the succeeding day. Several very faint spots are seen between them. On May 3 the nucleus of *a* shows signs of dividing, and on May 4 *a* has become two distinct spots. These diminish in size and are both smaller than *b*. On May 10 *b* alone is seen on the west limb.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
118d.430	M,JG	2486	0·949	282·7	36·6	+10·7	37	341	
		2486	0·937	281·3	34·7	+ 9·1	13	131	
I.		2486	0·920	281·4	32·0	+ 8·8	7	23	
		2486	0·921	283·9	31·8	+11·0	0	6	
		2486	0·904	282·0	29·7	+ 8·9	0	38	1807c
		2486	0·899	284·9	28·6	+11·4	6	42	
		2486	0·869	284·9	24·9	+10·7	0	6	
		2486	0·853	284·8	23·2	+10·3	3	49	
		2486	0·845	287·0	21·9	+12·0	0	12	
		2490	0·810	243·4	18·5	−23·8	0	5	
		2490a	0·763	243·8	14·0	−22·5	18	95	
		2490	0·719	243·0	10·0	−22·1	0	6	378c
		2490	0·700	238·8	7·4	−24·4	0	6	
		2491a	0·778	295·5	13·4	+16·7	61	249	
		2491	0·742	297·3	9·8	+16·8	0	9	
		2491	0·717	298·4	7·4	+16·8	0	5	
		2491	0·696	299·7	5·4	+16·9	8	34	454c
		2491	0·664	301·9	2·4	+17·1	2	6	
		2494a	0·583	304·5	356·2	+15·6	10	60	
		2494	0·572	305·9	355·1	+15·9	0	3	
		2494	0·543	310·9	351·7	+16·9	0	2	
		2494	0·524	313·2	349·9	+17·1	0	1	
		2494	0·488	320·5	345·4	+18·1	0	7	
		2492	0·279	139·8	315·6	−16·4	0	6	
		2492a	0·326	138·1	313·2	−18·1	58	359	
		2496	0·926	112·6	258·9	−22·5	0	7	
		2496	0·932	110·9	257·8	−21·0	0	8	603c
		2496a	0·934	114·2	257·8	−24·0	75	233	
		2496b	0·978	113·7	247·9	−24·1	13	119	
			0·902	104·0	262·0	−14·4			401
			0·959	65·5	256·4	+22·0			419
Apr. 28		Centre			(326·4)	(−4·2)	(311)	(1868)	(5301)
119·401	M,AB		0·904	306·0	11·0	+29·9			456
		2486	0·995	281·1	36·8	+10·6	20	248	
		2486	0·991	279·2	34·9	+ 8·5	0	68	1887c
		2486	0·980	281·3	30·9	+10·2	0	36	
		2486	0·971	283·4	28·3	+12·0	0	28	
		2486	0·946	282·2	23·3	+10·2	0	17	
		2490a	0·876	246·4	13·8	−22·6	10	70	880c
		2491a	0·887	291·1	13·1	+16·6	43	318	749c
		2491	0·820	291·2	5·7	+14·7	0	8	
1892.				°	°	°			
119d.401	M,AB	2494a	0·737	295·7	357·0	+15·6	10	53	
		2494	0·701	296·5	354·0	+15·1	5	41	239c
		2494	0·681	299·8	351·5	+16·5	4	25	
		2492	0·215	286·3	315·0	−16·4	0	7	
		2492a	0·246	179·4	313·4	−18·3	59	346	353c
		2492	0·225	173·0	312·0	−17·0	0	20	
		2496a	0·843	115·9	257·8	−23·9	41	210	
		2496	0·864	115·5	255·2	−24·0	0	42	936c
		2496b	0·908	115·7	249·3	−25·0	23	115	
			0·901	64·2	253·4	−21·1			527
			0·903	123·2	251·3	−31·6			430
Apr. 29		Centre			(313·6)	(−4·1)	(215)	(1652)	(6457)
120·409	JG,AB		0·953	308·4	5·4	+34·7			660
		2490a	0·959	247·7	13·8	−22·5	6	25	757c
		2491a	0·965	288·8	12·8	+16·9	27	291	568c
		2494a	0·867	291·1	357·4	+16·0	8	62	
		2494	0·842	290·4	354·8	+14·7	0	9	536c
		2494	0·819	294·4	351·5	+17·3	0	7	
		2492a	0·333	222·2	313·8	−18·1	54	307	270c
		2492	0·299	223·8	312·7	−16·3	1	4	
		2496	0·686	119·1	260·0	−22·5	1	16	
		2496a	0·718	120·1	257·6	−24·0	41	232	
		2496	0·732	118·4	256·0	−23·2	0	4	446c
		2496	0·746	119·9	255·1	−24·7	8	49	
		2496b	0·806	118·6	249·0	−25·2	18	150	
		2497	0·809	60·4	251·6	+20·9	6	26	
		2497	0·817	61·9	250·4	+20·1	7	18	472c
		2497	0·777	65·2	253·2	+16·3	0	21	
		2497	0·855	61·6	246·5	+21·7	4	11	
			0·768	54·5	257·5	+23·5			316
			0·813	127·2	250·7	−32·0			257
			0·830	126·2	248·5	−31·8			26
			0·888	117·6	239·2	−26·2			301
			0·918	118·6	234·9	−27·8			696
Apr. 30		Centre			(300·3)	(−4·0)	(181)	(1232)	(5305)
121·419	M,JG		0·988	246·8	8·7	−23·5			221
			0·962	310·6	353·3	+37·2			135
			0·879	252·1	349·1	−17·6			160
			0·876	239·5	345·9	−28·4			136
		2494a	0·954	288·1	357·3	+15·9	6	46	719c

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2497, April 30–May 9. An irregular group of spots on April 30, which appears as a stream on May 1. The spots show a tendency to coalesce on the succeeding days, and form an almost continuous line on May 4. By May 6 they have formed two streams at right angles to each other, both being inclined to the Sun's equator. The group again becomes irregular in form on the succeeding days, and only two faint spots are visible on the west limb on May 9.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
121d·419	M,JG	2492*a*	0·501	239·1	313·8	−18·4	53	337	222*c*
		2496	0·537	126·8	259·4	−22·2	2	17	
		2496*a*	0·576	128·2	257·4	−24·2	45	252	166*c*
		2496	0·610	127·2	254·7	−24·9	2	33	
		2496*b*	0·669	123·6	249·3	−24·8	21	153	158*c*
		2497	0·671	51·4	252·9	+21·4	1	14	
		2497	0·689	53·8	250·6	+20·9	9	44	
		2497	0·713	53·6	248·9	+21·9	0	8	
		2497	0·722	54·8	247·8	+21·5	4	16	294*c*
		2497	0·733	56·4	246·3	+20·9	0	7	
		2497	0·749	55·6	245·3	+22·1	0	8	
		2498*a*	0·959	102·1	212·8	−12·7	34	307	710*c*
			0·930	117·1	219·4	−26·6			129
			0·843	122·6	232·7	−29·3			227
May 1		Centre			(287·0)	(−3·9)	(177)	(1242)	(3277)
122·234	CL,AB		0·967	289·9	349·1	+18·1			477
			0·903	251·4	340·4	−18·4			260
I.		2499*a*	0·909	290·5	338·8	+16·8	8	31	631*c*
		2499	0·879	292·6	334·4	+17·7	4	26	
		2492*a*	0·639	246·0	313·9	−18·0	75	315	365*c*
		2492	0·617	237·1	310·2	−22·7	0	7	
		2496	0·413	138·8	259·3	−21·7	0	20	
		2496*a*	0·462	139·8	257·2	−24·2	46	232	
		2496	0·495	136·8	254·4	−24·7	0	29	371*c*
		2496*b*	0·548	131·3	249·4	−24·5	30	140	
		2496	0·572	131·9	248·1	−25·7	0	16	
		2497	0·556	39·9	253·7	+21·7	0	3	
		2497	0·569	43·1	251·7	+21·0	15	53	
		2497	0·621	46·0	247·5	+22·2	4	11	245*c*
		2497	0·648	47·8	245·0	+22·5	0	7	
		2500	0·814	111·9	222·9	−20·0	8	51	
		2500	0·839	111·3	220·2	−19·8	0	21	420*c*
		2498*a*	0·894	102·0	212·9	−12·4	61	401	
		2498	0·938	102·0	206·4	−12·6	0	29	802*c*
		2498	0·951	103·2	204·1	−13·7	0	74	
			0·876	132·3	220·8	−38·3			232
			0·904	118·6	213·0	−27·4			262
			0·913	70·3	212·9	+16·3			404
May 2		Centre			(276·2)	(−3·8)	(251)	(1466)	(4469)
123·400	AB,JG	2499*a*	0·966	289·3	333·5	+17·5	0	39	465*sp*
		2492*a*	0·811	250·8	314·0	−17·7	69	265	695*c*
I.		2492	0·790	251·2	312·0	−17·1	0	9	
1892.				°	°	°			
123d·400	AB,JG	2501	0·728	240·0	304·1	−24·0	0	7	98*c*
		2496	0·345	174·4	258·6	−23·7	0	5	
I.		2496*a*	0·362	170·3	256·9	−24·5	48	242	336*c*
		2496*b*	0·409	153·9	249·3	−25·1	21	133	211*c*
		2497	0·477	11·7	254·6	+24·0	0	2	
		2497	0·443	15·7	253·3	+21·5	12	38	
		2497	0·450	18·9	251·7	+21·4	0	8	
		2497	0·450	23·3	249·8	+20·7	4	36	
		2497	0·478	25·0	248·2	+22·0	0	6	
		2497	0·440	28·4	248·0	+19·1	0	3	
		2497	0·499	27·9	246·1	+22·5	5	25	
		2497	0·465	31·2	245·9	+19·8	0	4	
		2497	0·489	30·1	245·5	+21·4	0	17	
		2500	0·648	117·6	223·1	−20·4	11	33	
		2500	0·660	116·0	221·8	−19·7	0	6	
		2500	0·699	115·6	218·7	−20·3	5	25	213*c*
		2500	0·714	114·5	217·2	−19·9	0	3	
		2498*a*	0·732	103·6	214·1	−12·4	50	269	
		2498	0·811	104·1	206·9	−13·6	0	24	
		2498	0·838	104·6	204·2	−14·2	2	18	557*c*
			0·890	121·9	217·0	−29·9			140
			0·867	68·7	203·6	+16·3			293
May 3		Centre			(260·7)	(−3·7)	(227)	(1217)	(3008)
124·205	CL,HA		0·940	288·6	317·9	+16·1			130
		2492*a*	0·902	252·5	314·1	−17·3	65	287	956*c*
I.		2502*a*	0·568	328·0	269·5	+25·3	5	21	194*c*
		2502*b*	0·561	332·2	267·0	+26·2	8	33	
		2496	0·401	197·9	257·9	−25·9	3	15	
		2496*a*	0·372	197·1	257·0	−24·3	29	125	
		2496*a*	0·395	194·8	256·5	−25·9	18	76	238*c*
		2496*b*	0·369	178·6	249·5	−25·3	26	146	
		2497	0·422	357·6	251·2	+21·2	23	88	
		2497	0·435	3·5	248·5	+22·0	4	17	441*c*
		2497	0·446	8·4	246·1	+22·5	11	54	
		2500	0·520	124·7	223·1	−20·4	6	18	
		2500	0·530	122·3	221·8	−19·6	1	11	
		2500	0·565	119·7	218·9	−19·3	3	11	466*c*
		2503	0·603	130·6	219·6	−26·1	0	8	
		2498*a*	0·602	106·1	213·9	−12·5	41	232	
		2498	0·637	105·2	211·3	−12·4	0	3	
		2498	0·687	105·7	207·4	−13·4	3	14	592*c*
		2504	0·687	112·6	208·4	−18·0	0	8	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2498, May 1–12. A large regular spot, *a*, followed by a stream of small spots. The following spots have disappeared by May 11.
Group 2499, May 2–3. A pair of spots are seen on May 2. Only one is seen on May 3.
Group 2500, May 2–6. A disturbed region. Three spots are seen following each other on May 4, but have disappeared by May 5. A fresh spot is seen on that date, and a new stream has formed by May 6.
Group 2501, May 3. A very small faint spot.
Group 2502, May 4–8. A pair of spots, *a* and *b*, which have become regular by the succeeding day. A small spot is seen between them on May 5.
Group 2503, May 4–7. A pair of faint spots which gradually separate in longitude. Only one is seen on May 7.
Group 2504, May 4–5. A small faint spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
124d.205	CL,HA		0·791	63·2	202·2	+18·4			384
			0·847	127·0	196·7	−32·8			394
I.			0·938	76·1	181·9	+11·7			209
			0·956	59·3	181·9	+27·9			328
May 4		Centre			(250·1)	(−3·6)	(246)	(1167)	(4332)
125·303	CL,JG		0·900	280·0	298·7	+ 7·4			160
I.		2492a	0·982	252·5	314·9	−17·8	20	178	889c
		2502a	0·714	309·4	272·6	+24·1	11	55	
		2502	0·707	310·6	271·6	+24·5	0	5	407c
		2502b	0·673	317·0	266·3	+26·4	15	85	
		2496	0·534	220·7	258·5	−27·0	0	11	
		2496a	0·499	222·1	257·2	−24·9	32	155	
		2496a	0·514	218·7	256·6	−26·8	16	52	639c
		2496	0·487	216·0	254·2	−26·4	5	21	
		2496b	0·442	210·1	249·8	−25·8	26	147	
		2497	0·513	321·7	255·3	+20·4	6	16	
		2497	0·485	321·3	254·2	+18·9	0	3	
		2497	0·490	323·1	253·7	+19·7	0	9	
		2497	0·501	324·8	253·5	+20·8	8	27	
		2497	0·489	326·7	252·2	+20·7	3	11	
		2497	0·435	328·0	249·6	+18·2	0	2	301c
		2497	0·452	329·8	249·5	+19·5	0	2	
		2497	0·474	333·8	248·6	+21·7	0	4	
		2497	0·403	332·2	246·9	+17·3	0	4	
		2497	0·465	340·9	245·0	+22·5	6	18	
		2496*	0·497	190·5	241·7	−32·6	0	6	
		2505	0·238	159·8	230·7	−16·3	1	5	
		2505	0·263	158·1	229·7	−17·5	3	16	
		2500	0·363	146·0	224·7	−20·9	4	10	
		2503	0·468	149·6	220·2	−27·1	4	15	
		2503	0·498	146·6	217·5	−28·4	3	12	171c
		2498a	0·381	115·5	215·0	−12·7	36	205	
		2498	0·404	115·0	213·6	−13·1	5	26	197c
		2504	0·495	122·9	209·7	−18·7	0	4	
		2506	0·636	134·3	204·3	−29·3	0	4	
		2507	0·941	69·4	168·0	+18·0	51	211	1061c
			0·882	61·6	178·4	+22·9			281
			0·922	50·5	176·6	+34·1			273
			0·907	131·4	175·3	−38·6			77
May 5		Centre			(235·6)	(−3·5)	(255)	(1319)	(4456)
126·473	CL,HA	2502a	0·851	302·1	273·5	+24·9	13	58	
		2502b	0·793	308·2	265·3	+27·0	15	63	363c
1892.				°	°	°			
126d.473	CL,HA	2496a	0·651	234·9	256·8	−24·6	17	99	
		2496	0·658	231·6	256·2	−26·8	2	15	344c
		2496b	0·574	228·1	249·2	−25·4	19	130	
		2497	0·650	307·6	254·3	+20·5	12	80	
		2497	0·589	309·2	249·8	+18·9	6	18	
		2497	0·553	311·6	246·8	+18·5	10	31	
		2497	0·566	315·1	246·2	+20·6	0	11	564c
		2497	0·575	319·9	244·7	+23·0	1	18	
		2497	0·526	313·6	244·6	+18·2	0	7	
		2500	0·296	183·9	222·3	−20·4	3	20	
		2500	0·264	175·7	219·9	−18·6	0	5	
		2503	0·435	173·2	217·7	−28·8	0	5	191c
		2503	0·421	169·9	216·3	−27·7	0	6	
		2508	0·144	346·6	223·0	+ 4·7	0	11	
		2498	0·156	144·7	215·9	−10·6	0	3	
		2498a	0·196	146·9	214·8	−12·7	31	218	
		2507	0·843	65·0	167·4	+18·9	37	207	1212c
			0·947	120·1	151·0	−29·6			292
			0·769	46·7	181·4	+29·2			506
			0·896	49·0	166·6	+34·1			264
May 6		Centre			(221·1)	(−3·3)	(166)	(1005)	(3736)
127·418	M,JG	2502	0·941	298·8	273·7	+25·7	0	48	
		2502b	0·888	303·2	264·2	+27·3	14	81	205c
		2496	0·801	238·0	257·3	−27·2	0	11	
		2496	0·784	245·0	257·3	−21·4	0	5	
		2496	0·795	239·4	257·0	−25·9	0	3	
		2496a	0·788	241·0	256·8	−24·5	20	100	
		2496	0·772	242·9	255·7	−22·7	0	14	567c
		2496	0·771	237·3	254·2	−26·8	0	7	
		2496	0·744	236·8	251·5	−26·2	0	6	
		2496	0·730	236·1	250·1	−26·3	0	4	
		2496b	0·710	236·5	248·5	−25·4	27	206	
		2497	0·791	299·2	255·0	+20·5	0	10	
		2497	0·779	300·7	253·4	+21·2	0	16	
		2497	0·768	299·6	252·8	+20·0	0	5	
		2497	0·741	300·6	250·2	+19·8	2	32	620c
		2497	0·720	299·9	248·7	+18·6	9	31	
		2497	0·710	305·2	246·2	+21·6	0	10	
		2497	0·691	302·5	245·7	+19·2	9	59	
		2503	0·444	209·7	221·8	−25·7	1	4	
		2498a	0·207	218·2	215·2	−12·6	37	194	

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Group 2496*, May 5. A very small spot, *s f* Group 2496.
Group 2505, May 5. A pair of faint spots.
Group 2506, May 5. A faint spot.
Group 2507, May 5–16. A large regular spot. A small companion is seen close to it on May 10–11. The two are measured together on May 11.
Group 2508, May 6. A small faint spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
127d.428	M, JG	2498	0·175	224·5	214·8	−10·3	0	3	
		2498	0·190	212·6	213·7	−12·4	2	27	
		2498	0·200	204·3	212·5	−13·7	0	6	
		2509	0·052	235·0	210·1	− 5·0	0	2	
		2509	0·047	199·8	208·6	− 5·8	0	2	
		2507	0·721	59·3	166·9	+19·1	32	192	266*c*
			0·854	52·1	157·1	+29·6			108
			0·839	66·2	152·2	+17·8			249
			0·892	120·9	147·1	−28·8			134
May 7		Centre			(207·7)	(−3·2)	(153)	(1078)	(2149)
128·496	CL, AB		0·847	232·5	246·9	−32·9			378
		2502*b*	0·961	300·1	263·8	+27·8	9	65	378*c*
		2496	0·912	248·3	258·9	−21·0	3	9	
		2496*a*	0·903	243·9	257·0	−24·8	7	27	
		2496	0·887	245·4	255·0	−23·2	0	11	756*c*
		2496	0·852	239·7	249·5	−27·2	0	6	
		2496*b*	0·839	242·7	248·6	−24·4	20	152	
		2497	0·883	295·3	252·2	+20·5	3	21	
		2497	0·870	294·6	250·8	+19·5	6	21	
		2497	0·860	296·4	249·2	+20·7	0	14	1097*c*
		2497	0·851	298·4	247·5	+22·0	7	33	
		2497	0·824	296·7	245·2	+19·8	7	25	
		2498*a*	0·402	245·6	215·8	−12·4	33	194	
		2498	0·367	242·0	213·0	−10·2	0	7	
		2507	0·570	48·7	167·0	+19·3	32	172	127*c*
		2509*	0·696	59·7	154·8	+18·1	0	8	
			0·949	97·2	122·3	− 7·8			265*f*
May 8		Centre			(193·9)	(−3·1)	(127)	(765)	(3001)
129·427	HA, JG		0·870	235·3	237·7	−31·3			334
		2496	0·966	244·8	255·8	−25·1	0	14	683*c*
		2496	0·956	246·1	253·6	−23·7	0	12	
		2496*b*	0·925	244·9	247·6	−24·3	10	125	
		2497	0·927	294·9	245·7	+21·7	0	6	
		2497	0·914	293·4	244·1	+20·0	0	18	948*p*
		2510	0·872	241·5	239·5	−26·2	0	15	111*f*
		2498*a*	0·577	252·7	215·3	−12·4	27	189	183*c*
		2498	0·555	250·2	213·4	−13·4	0	3	
		2511	0·479	164·8	172·8	−30·4	0	5	45*c*
		2507	0·445	32·3	166·6	+19·1	38	211	111*c*
		2512	0·962	78·6	108·1	+10·1	0	24	39*c*
May 9		Centre			(181·1)	(−3·0)	(75)	(622)	(2454)
1892.				°	°	°			
130d.406	CL, JG		0·961	292·6	239·5	+20·8			527
			0·936	239·2	235·7	−29·8			599
		2496*b*	0·984	246·2	247·8	−23·9	27	131	199*f*
		2513	0·817	245·5	220·9	−21·5	3	11	222*c*
		2513	0·788	246·4	218·2	−20·2	0	6	
		2498*a*	0·748	256·4	215·9	−12·1	33	190	209*c*
		2498	0·717	253·8	213·0	−13·5	0	2	
		2498	0·698	253·9	211·5	−13·2	0	4	
		2507	0·402	3·4	166·6	+20·7	2	7	
		2507	0·376	4·3	166·6	+19·0	29	166	
		2514	0·670	100·6	126·4	− 9·3	1	7	
		2514	0·700	99·6	124·0	− 8·8	0	3	
		2514	0·704	100·9	123·7	− 9·8	0	11	242*c*
		2514	0·704	98·6	123·6	− 8·1	0	2	
		2514	0·758	102·8	119·3	−11·6	0	6	
		2512	0·881	77·0	107·7	+10·0	9	26	43*c*
		2515*a*	0·991	103·1	85·7	−13·4	105	1186	822*p*
			0·957	117·5	95·9	−27·1			212
May 10		Centre			(168·1)	(−2·9)	(209)	(1758)	(3075)
131·401	HA, AB		0·872	230·0	210·1	−35·7			305
			0·837	288·5	209·6	+13·8			198
		2513	0·922	247·8	221·3	−21·5	0	13	341*f*
		2498*a*	0·881	257·6	216·5	−12·3	21	181	657*c*
		2507	0·417	332·6	166·7	+18·9	33	166	200*c*
		2512	0·757	73·9	107·5	+10·2	6	28	173*c*
		2515*a*	0·943	103·7	84·6	−13·8	82	1044	1373*c*
			0·895	119·3	93·8	+27·3			479
May 11		Centre			(155·0)	(−2·8)	(142)	(1432)	(3726)
132·461	M, AB		0·941	286·3	209·4	+14·3			329
			0·924	203·8	187·9	−59·4			1749
		2498*a*	0·969	258·2	216·6	−12·1	21	174	694*f*
		2516*a*	0·716	305·2	179·9	+22·2	7	23	
		2516	0·709	307·8	178·4	+23·6	0	3	
		2516	0·695	307·0	177·7	+22·5	0	14	
		2517	0·538	288·3	171·8	+ 7·4	0	4	
		2507	0·553	311·6	166·7	+19·0	27	171	189*c*
		2512	0·582	68·5	107·7	+10·0	4	16	
		2512	0·612	69·1	105·5	+10·4	0	3	
		2515	0·796	102·4	88·6	−11·5	0	8	
		2515	0·805	106·2	88·1	−14·6	5	27	766*c*
		2515*a*	0·838	104·7	84·6	−13·8	136	917	

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Group 2509, May 7*. A pair of very small faint spots.
Group 2510, May 9. A very small faint spot.
Group 2511, May 9. A very small faint spot.
Group 2512, May 9–15. A faint irregular spot. A small companion is seen following it on May 12.
Group 2513, May 10–11. Two faint spots on May 10; one has disappeared by the succeeding day.
Group 2514, May 10. A number of small spots in an irregular group.
Group 2515, May 10–22. A large composite spot, *a*, from which a considerable portion has separated by May 12. This gradually diminishes in size after May 13. A regular spot, *b*, follows at a distance of about 10°. The nucleus of *a* by May 14 has thrown out two processes in a south-easterly direction, which enlarge and separate from the parent spot. *a* has become three distinct spots by May 18. Several small spots are seen near *a* during its progress.
Group 2516, May 12–15. Several small spots in a straggling group. The leader, *a*, alone remains by May 15. This spot shows a large proper motion in both longitude and latitude.
Group 2517, May 12. A small spot.

Group 2509*, May 8. A small faint spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
132d.461	MA,B	2515*b*	0·919	105·3	74·5	−15·1	0	29	381*p*
			0·856	122·9	85·7	−29·2			250
			0·965	119·2	66·9	−28·9			517
May 12		Centre			(140·9)	(−2·7)	(200)	(1389)	(4875)
133·451	CL,JG		0·917	236·8	191·4	−31·3			160
		2516*a*	0·850	299·4	181·2	+23·1	10	39	320*c*
		2516	0·806	300·4	176·3	+22·3	2	14	
		2507	0·700	301·3	167·0	+19·2	22	167	173*c*
		2512	0·402	57·0	107·9	+10·1	0	11	
		2515	0·683	110·8	86·4	−16·0	12	134	
		2515	0·708	109·7	84·2	−15·5	3	11	
		2515	0·700	103·3	84·0	−11·1	0	8	
		2515*a*	0·707	106·4	83·8	−13·4	102	690	
		2515	0·723	109·8	83·0	−16·0	0	5	
		2515*b*	0·812	107·0	74·4	−15·3	5	29	616*c*
			0·912	120·5	64·4	−28·7			506
May 13		Centre			(127·8)	(−2·6)	(156)	(1108)	(1775)
134·316	JG,AB		0·915	247·1	181·4	−21·9			263
			0·870	290·1	173·4	+16·0			346
I.			0·884	225·5	171·2	−39·7			191
			0·848	317·9	161·8	+37·2			348
		2516*a*	0·937	296·3	182·5	+23·5	21	77	
		2516	0·922	295·2	180·3	+22·0	0	19	504*c*
		2516	0·897	295·8	176·6	+21·7	0	28	
		2507	0·814	295·7	167·1	+19·0	31	178	326*c*
		2518	0·658	329·1	139·8	+32·0	0	5	
		2512	0·265	33·8	107·8	+10·2	5	10	
		2515	0·544	116·7	86·1	−16·3	13	101	
		2515*a*	0·555	111·4	84·4	−13·8	107	538	
		2515	0·581	115·1	83·3	−16·3	0	15	
		2515	0·597	108·0	81·0	−12·6	0	11	219*c*
		2515	0·617	108·7	79·6	−13·4	0	6	
		2515	0·634	108·5	78·3	−13·6	0	22	
		2515*b*	0·691	109·7	74·2	−15·3	13	40	178*c*
		2519*a*	0·903	78·0	53·0	+ 9·7	17	68	
		2519*b*	0·929	78·7	49·2	+ 9·5	23	78	1142*c*
		2519*c*	0·965	78·0	42·6	+10·9	23	108	
			0·860	124·8	61·3	−30·8			591
			0·896	57·0	58·4	+27·9			832
			0·906	111·5	52·5	−20·5			82
May 14		Centre			(116·4)	(−2·5)	(253)	(1304)	(5022)
1892.				°	°	°			
135d.193	HA,JG		0·932	314·5	164·0	+39·5			284
			0·890	305·5	161·1	+29·8			221
I.			0·943	327·6	158·4	+51·3			261
			0·778	231·1	149·4	−30·9			240
		2516*a*	0·989	294·5	184·0	+23·8	0	48	591*f*
		2507	0·908	291·8	166·3	+18·4	39	165	739*f*
		2520	0·405	251·4	127·5	− 9·6	0	6	
		2512	0·227	345·1	108·1	+10·2	0	6	
		2515	0·375	131·3	87·7	−16·6	12	51	
		2515	0·338	120·6	87·5	−12·2	0	10	
		2515	0·365	127·6	87·3	−15·1	0	3	
		2515	0·395	127·5	85·7	−16·1	4	62	663*c*
		2515*a*	0·397	120·6	84·2	−13·9	114	695	
		2515	0·474	116·8	78·9	−14·5	0	151	
		2515*b*	0·541	115·4	74·4	−15·4	11	41	
		2519*a*	0·791	76·1	53·8	+ 9·4	23	203	
		2519*b*	0·838	76·3	49·1	+10·1	22	133	1187*c*
		2519*c*	0·888	76·2	43·3	+11·0	18	81	
		2519	0·902	73·9	42·0	+13·4	0	7	
			0·818	128·0	55·6	−31·8			361
			0·876	52·2	51·0	+31·0			371
			0·942	62·8	37·8	+24·5			497
			0·969	116·9	29·8	−26·6			641
May 15		Centre			(104·7)	(−2·4)	(243)	(1662)	(6056)
136·427	HA,JG	2507	0·983	289·2	166·4	+18·4	33	186	777*f*
		2521	0·325	212·2	98·9	−18·1	1	8	
		2515	0·246	179·8	88·4	−16·4	7	48	
		2515	0·228	178·4	88·1	−15·3	0	5	
		2515	0·250	172·4	86·5	−16·5	3	28	179*c*
		2515	0·279	168·8	85·2	−18·0	0	7	
		2515*a*	0·218	161·6	84·5	−14·1	85	632	
		2515*b*	0·332	134·8	74·4	−15·6	8	32	
		2519*a*	0·582	71·9	54·6	+ 8·6	19	148	
		2519	0·617	71·2	52·3	+ 9·7	0	4	
		2519*b*	0·660	72·1	49·0	+10·0	17	99	295*c*
		2519*c*	0·718	73·0	44·4	+10·5	8	60	
			0·889	68·5	28·3	+17·9			1771
			0·924	117·6	22·7	+26·2			1328
May 16		Centre			(88·5)	(−2·2)	(181)	(1257)	(4350)
137·466	CL,M		0·925	290·8	140·1	+18·3			355
			0·916	237·3	138·1	−30·6			164
		2521	0·498	236·7	100·5	−17·7	1	3	
		2515	0·328	224·1	88·3	−15·6	7	19	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2518, May 14. A small spot.
Group 2519, May 14–25. A stream composed of three large spots, *a, b, c,* with one or two small companions. *a* has undergone considerable change, and *b* has divided by May 16. By the succeeding day *a* has also broken up into smaller spots. Two spots alone remain on May 20, but by the succeeding day a fresh outburst has taken place. Two large spots lead, and are measured together on May 22 and the succeeding days.
Group 2520, May 15. A faint spot.
Group 2521, May 16–17. A very small faint spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
137d.466	CL,M	2515	0·317	217·6	86·3	−16·5	1	2	
		2515	0·300	215·6	85·1	−16·1	0	1	
		2515	0·319	210·9	84·6	−17·9	0	12	
		2515	0·231	225·6	84·3	−11·3	0	4	
		2515*a*	0·260	217·0	83·9	−14·0	83	612	
		2515	0·215	221·7	83·1	−11·3	0	32	
		2515	0·293	207·5	82·8	−17·1	2	10	
		2515	0·225	205·5	80·4	−13·7	0	18	
		2515*b*	0·236	177·5	74·1	−15·7	5	33	
		2519*a*	0·394	60·5	54·5	+ 9·2	26	106	
		2519*b*	0·481	64·3	48·7	+10·1	17	94	363*c*
		2519	0·519	63·5	46·5	+11·5	1	17	
		2519*c*	0·535	66·0	45·0	+10·7	9	67	
		2522	0·541	75·7	43·0	+ 5·9	0	11	
		2522	0·562	70·3	42·4	+ 9·1	0	2	
		2522	0·561	76·1	41·6	+ 6·0	0	2	
		2522	0·591	75·6	39·7	+ 6·7	1	8	
			0·828	49·5	27·6	+31·0			192
			0·833	124·7	23·0	−29·6			633
			0·901	116·0	12·3	−24·2			804
			0·908	71·4	11·5	+15·9			691
			0·942	56·3	9·3	+30·6			220
May 17		Centre			(74·7)	(−2·1)	(153)	(1053)	(3422)
138·439	HA,AB		0·886	260·8	123·9	− 9·1			310
		2515	0·506	241·9	89·3	−15·5	5	15	
		2515	0·485	232·8	85·8	−18·8	0	4	
		2515	0·418	248·8	85·0	−10·5	0	11	
		2515*a*	0·433	240·2	84·5	−14·2	96	542	
		2515*b*	0·327	222·0	74·9	−15·9	5	17	
		2519*a*	0·227	29·6	55·3	+ 9·3	15	54	
		2519	0·287	41·3	50·7	+10·4	3	10	
		2519	0·292	46·6	49·4	+ 9·6	4	34	
		2519	0·335	47·0	47·4	+11·2	0	7	
		2519*c*	0·342	51·4	46·1	+10·8	12	40	
		2519	0·360	54·2	44·6	+10·2	0	4	
		2522	0·328	66·7	44·3	+ 5·5	0	3	
		2522	0·398	67·9	40·1	+ 6·7	1	4	
		2523	0·846	119·3	7·1	−25·5	0	4	1035*sp*
		2524*a*	0·987	74·5	342·1	+14·9	41	446	357*c*
			0·898	135·8	5·8	−41·1			260
			0·871	68·9	3·7	+17·2			1452
			0·912	53·5	2·4	+31·8			727
May 18		Centre			(61·8)	(−2·0)	(182)	(1195)	(4141)
1892.				°	°	°			
139d.185	CL,AB		0·959	260·3	125·4	− 9·9			213
			0·905	286·6	115·2	+14·1			159
I.		2525	0·708	255·9	96·3	−11·3	2	14	
		2525	0·671	254·5	93·2	−11·8	0	6	
		2515	0·638	247·6	89·6	−15·6	4	14	193*c*
		2515	0·578	253·6	86·2	−11·0	0	5	
		2515*a*	0·566	247·8	84·5	−13·9	109	473	
		2515	0·569	241·3	83·4	−17·5	0	4	
		2515*b*	0·450	236·6	74·9	−16·1	6	15	
		2519	0·211	337·9	56·6	+ 9·4	0	6	
		2519	0·216	344·6	55·3	+10·1	0	12	
		2519	0·211	3·7	51·2	+10·3	2	26	
		2519	0·209	10·6	49·8	+ 9·9	3	10	
		2519*c*	0·237	21·7	46·9	+10·8	7	30	
		2519	0·255	28·4	44·9	+11·0	5	35	
		2519	0·268	35·9	42·8	+10·6	4	11	
		2519	0·286	48·3	39·5	+ 9·1	0	5	
		2524*a*	0·953	73·3	341·1	+15·3	70	575	673*c*
			0·882	49·9	358·2	+33·4			240
			0·842	66·2	357·8	+18·7			344
			0·887	106·1	350·3	−15·1			127
			0·936	121·1	345·0	−29·6			64
May 19		Centre			(52·0)	(−1·9)	(212)	(1241)	(2013)
140·418	CL,JG		0·877	240·5	94·0	−26·5			298
		2525	0·909	251·4	100·1	−17·6	0	9	144*sp*
		2525	0·889	258·8	98·0	−10·7	8	31	371*c*
		2525	0·842	257·3	92·5	−11·7	11	43	
		2515	0·821	252·5	89·8	−15·3	0	8	
		2515*a*	0·768	254·6	84·9	−12·9	32	238	
		2515	0·773	247·7	84·4	−18·2	6	21	714*c*
		2515	0·759	251·7	83·8	−15·0	22	126	
		2515	0·754	249·0	82·9	−16·9	0	12	
		2515*b*	0·658	246·3	74·5	−16·7	6	21	216*c*
		2519	0·360	308·4	52·3	+11·2	0	5	
		2519*c*	0·294	316·3	47·6	+10·4	9	37	
		2526	0·413	149·6	22·7	−22·6	0	3	
		2527	0·346	54·5	19·2	+ 9·9	0	6	
		2527	0·365	53·4	18·4	+10·8	0	8	
		2524*a*	0·832	71·2	341·5	+14·4	47	539	816*c*
		2524	0·896	70·6	334·2	+16·4	0	15	
		2528	0·992	106·8	312·9	−16·9	0	128	97*p*

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2522, May 17–18. A stream of faint spots south of Group 2519.
Group 2523, May 18. A very small spot surrounded by extensive Faculæ.
Group 2524, May 18–30. A large irregular spot, *a*. Several small companions are seen on May 20. *a* has become greatly elongated in the direction of motion by May 23, and its nucleus has divided into two by May 24. *a* has become two distinct spots by May 25. Both the principal and the attendant spots decrease in size after this date.
Group 2525, May 19–21. A group of faint spots that increase in size as they approach the west limb.
Group 2526, May 20–25. One small spot is seen on May 20. The group has greatly increased in size by the succeeding day, fresh spots having formed, and on May 23 it consists of two streams in the shape of a V, with the principal spot, *a*, at the vertex. On this day *a* shows signs of dividing into two. The group has become small and irregular in outline by the succeeding day.
Group 2527, May 20. Two faint spots.
Group 2528, May 20–28. A regular spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
140d·418	CL,JG		0·879	45·1	344·5	+37·2			300
			0·878	116·9	336·7	−24·3			157
May 20		Centre			(35·7)	(−1·8)	(141)	(1250)	(3113)
141·460	CL,AB		0·934	241·5	88·8	−27·1			364
			0·809	245·0	73·5	−21·0			436
			0·780	230·3	66·2	−31·0			359
		2525	0·945	258·4	92·5	−11·5	16	70	
		2515	0·901	250·6	85·0	−18·1	0	19	
		2515*a*	0·894	256·8	84·7	−12·5	31	197	1442*c*
		2515	0·886	253·9	83·5	−15·0	13	122	
		2515	0·878	256·4	82·7	−12·7	0	16	
		2515	0·807	251·4	74·4	−15·9	5	15	245*c*
		2529	0·704	230·5	59·6	−27·8	0	5	55*c*
		2529	0·564	231·1	50·1	−22·1	1	10	
		2529	0·551	230·5	49·1	−21·8	1	5	
		2529	0·561	228·0	48·8	−23·4	0	4	184*c*
		2529	0·532	229·5	47·6	−21·6	0	4	
		2529	0·541	227·8	47·5	−22·7	5	11	
		2519	0·486	295·9	48·2	+10·8	15	53	
		2519	0·475	293·7	48·0	+ 9·5	11	18	
		2519*c*	0·471	295·6	47·4	+10·3	0	5	190*c*
		2519	0·456	298·0	46·0	+10·9	5	23	
		2526	0·381	187·7	25·1	−23·7	3	14	
		2526	0·399	179·8	21·8	−25·0	6	14	
		2526*a*	0·363	174·2	19·7	−22·7	23	63	
		2526	0·373	171·3	18·4	−23·1	2	9	371*c*
		2526	0·418	170·0	17·3	−25·8	18	50	
		2526	0·400	169·2	17·2	−24·6	0	3	
		2530*a*	0·387	58·1	2·5	+10·3	8	17	
		2530	0·413	55·6	1·6	+12·0	0	3	
		2530	0·402	60·1	1·3	+10·0	0	11	214*c*
		2530*b*	0·434	59·9	359·5	+11·1	7	16	
		2524	0·658	62·1	344·7	+16·6	0	3	
		2524*a*	0·684	66·1	341·7	+14·9	78	551	938*c*
		2524	0·716	66·9	337·8	+15·1	0	17	
		2531	0·861	56·7	328·1	+27·2	0	4	48*nf*
		2528	0·935	107·4	313·4	−16·8	12	48	290*c*
May 21		Centre			(21·9)	(−1·6)	(260)	(1400)	(5136)
142·443	CL,JG		0·907	248·0	72·6	−20·5			275
I.			0·855	233·7	62·5	−31·3			498

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
142d·443	CL,JG	2515*a*	0·978	257·0	86·7	−13·1	43	280	
		2515	0·974	254·2	85·5	−15·7	0	109	
I.		2515	0·956	252·5	81·3	−17·2	0	15	1205*c*
		2515	0·923	252·3	75·4	−16·9	0	20	
		2529	0·725	239·7	51·4	−22·5	0	12	
		2529	0·702	238·8	49·2	−22·4	2	14	300*c*
		2529	0·700	235·4	48·0	−24·5	0	33	
		2529	0·687	235·9	47·2	−23·7	6	25	
		2519	0·668	286·2	49·3	+ 9·5	28	125	
		2519	0·651	285·4	48·2	+ 8·8	0	6	
		2519	0·634	288·8	46·4	+10·6	6	34	375*c*
		2519	0·613	289·5	44·7	+10·5	0	4	
		2526	0·473	215·5	26·3	−24·0	0	4	
		2526	0·469	213·8	25·5	−24·3	6	17	
		2526	0·472	207·7	23·0	−26·1	0	12	394*c*
		2526*a*	0·409	206·9	20·4	−22·8	10	55	
		2526	0·451	197·3	17·5	−26·9	3	35	
		2532	0·250	352·8	10·7	+12·8	0	8	
		2532	0·285	359·8	9·0	+15·0	0	5	
		2530*a*	0·223	26·8	3·1	+10·0	37	225	
		2530	0·253	29·7	1·6	+11·2	0	6	266*c*
		2530	0·237	32·4	1·5	+10·0	0	4	
		2530	0·240	39·8	0·0	+ 9·2	0	16	
		2530*b*	0·274	37·3	359·2	+11·1	25	170	
		2524*a*	0·521	56·9	342·1	+15·1	80	543	416*c*
		2528	0·841	109·6	313·1	−17·2	15	66	353*c*
			0·900	114·5	306·6	−22·6			214
May 22		Centre			(8·9)	(−1·5)	(261)	(1843)	(4296)
143·401	HA,JG		0·971	253·9	72·0	−16·0			572
			0·934	238·9	62·6	−29·4			290
		2519	0·815	282·8	49·7	+ 9·6	38	198	
		2519	0·786	283·5	46·8	+ 9·7	0	5	
		2519	0·773	285·1	45·4	+10·7	13	44	464*c*
		2519	0·762	283·5	44·7	+ 9·3	0	3	
		2529	0·818	240·4	47·5	−24·7	0	12	216*np*
		2526	0·590	230·2	25·6	−23·3	1	10	
		2526	0·547	228·0	22·2	−22·7	0	5	
		2526*a*	0·523	226·0	20·1	−22·5	16	46	
		2526	0·517	221·5	18·1	−24·0	0	6	265*c*
		2526	0·516	221·3	18·0	−24·0	0	9	
		2526	0·524	216·2	16·3	−26·2	0	20	
		2526	0·495	218·9	16·0	−23·8	0	7	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2529, May 21–23. Several small spots in a straggling group.
Group 2530, May 21–28. Several small spots in an irregular stream on May 21. The two largest of these, *a* and *b*, have greatly increased by the succeeding day, and have become very large spots connected by three short streams of small spots. *b* has divided by May 24 into two spots, and undergoes still further diminution on the succeeding days. The leader, *a*, alone remains by May 27.
Group 2531, May 21. A small spot.
Group 2532, May 22–23. A small group preceding and closely connected with Group 2530.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
143d.401	HA,JG	2532	0·347	319·4	9·6	+13·8	0	6	
		2530a	0·235	329·8	3·1	+10·3	31	249	171c
		2530	0·213	339·0	0·6	+10·0	0	20	
		2530b	0·225	349·2	358·7	+11·3	23	198	
		2524a	0·377	39·0	342·0	+15·6	71	625	
		2524	0·414	35·3	341·7	+18·3	0	13	175c
		2524	0·400	45·6	339·1	+14·9	0	8	
		2528	0·711	112·7	313·1	−16·9	11	45	158c
		2533	0·907	113·9	292·8	−22·2	0	17	
		2534a	0·992	109·0	273·7	−19·0	0	180	226c
May 23		Centre			(356·2)	(−1·4)	(204)	(1726)	(2537)
144·410	JG,AB		0·922	245·3	48·3	−23·2			434
			0·859	298·3	38·1	+23·2			304
			0·800	288·3	34·1	+13·7			400
			0·754	232·4	25·1	−27·6			444
		2519	0·928	280·3	50·3	+ 9·1	33	193	
		2519	0·908	281·4	47·3	+ 9·8	0	11	1046c
		2519	0·894	282·8	45·3	+10·9	6	101	
		2526a	0·676	237·4	20·8	−22·4	4	14	
		2526	0·640	234·5	17·2	−22·8	0	5	
		2526	0·657	229·5	16·6	−26·2	0	5	122c
		2526	0·649	228·3	15·6	−26·6	0	10	
		2530a	0·393	301·3	2·8	+10·5	38	203	
		2530	0·366	304·3	0·7	+10·6	0	4	206c
		2530b	0·350	310·3	358·6	+11·8	28	123	
		2524	0·322	356·6	344·0	+17·4	0	7	
		2524	0·339	0·8	342·6	+18·5	0	6	
		2524a	0·291	1·3	342·5	+15·6	79	521	
		2524	0·346	4·4	341·3	+18·8	0	4	322c
		2524	0·277	9·9	340·1	+14·5	0	2	
		2524	0·294	11·4	339·5	+15·4	0	9	
		2524	0·316	12·2	338·9	+16·6	5	71	
		2528	0·560	119·6	312·4	−17·2	8	41	90c
		2533	0·800	117·7	293·0	−22·7	7	17	186c
		2534a	0·949	109·2	272·1	−18·6	64	536	
		2534b	0·984	108·8	263·6	−18·7	43	424	
		2534c	0·996	113·1	257·9	−23·1	0	100	935c
		2534	0·996	110·7	257·8	−21·9	0	56	
			0·948	63·8	278·1	+20·2			94
			0·958	75·0	270·7	+14·0			148
May 24		Centre			(342·9)	(−1·3)	(315)	(2463)	(4731)
1892.				°	°	°			
145d.497	CL,HA		0·988	246·9	48·9	−22·9			385
			0·905	301·4	28·9	+27·5			671
			0·869	287·9	27·1	+14·9			462
			0·779	226·5	10·8	−33·2			159
		2519	0·993	279·3	51·2	+ 9·1	38	247	643c
		2519	0·974	281·6	44·7	+11·0	14	123	
		2526a	0·828	243·7	21·6	−22·2	0	9	732s
		2530a	0·584	290·6	2·2	+10·8	33	247	
		2530	0·579	296·2	0·7	+13·8	0	6	208c
		2530b	0·545	294·5	358·8	+12·0	9	40	
		2524	0·419	320·3	344·7	+17·6	0	5	
		2524a	0·382	319·9	343·2	+15·8	91	~~196~~	422
		2524	0·412	324·7	343·0	+18·4	2	7	277c
		2524	0·347	325·5	340·2	+15·4	0	3	
		2524	0·364	329·7	339·5	+17·1	4	55	
		2535	0·205	250·6	339·6	− 5·1	2	10	
		2536	0·324	345·9	333·2	+17·1	0	8	
		2536	0·303	350·4	331·5	+16·1	0	3	
		2528	0·373	137·2	313·2	−16·9	7	33	
		2537	0·471	121·2	303·9	−15·2	2	7	
		2533	0·650	125·3	293·5	−23·0	0	7	
		2538	0·809	104·8	275·4	−12·6	0	7	
		2538	0·826	100·6	273·3	− 9·5	0	5	
		2534	0·829	108·8	273·9	−16·2	0	6	
		2534a	0·852	111·3	271·8	−18·7	98	653	
		2534b	0·909	110·3	264·4	−18·9	35	419	
		2534	0·941	111·9	259·5	−20·9	6	23	1553c
		2534c	0·947	114·8	258·7	−23·8	26	191	
		2534	0·957	108·3	256·1	−17·8	0	9	
			0·870	72·5	269·7	+14·6			200
			0·904	59·6	268·0	+26·6			310
			0·954	68·6	257·8	+20·0			636
May 25		Centre			(328·5)	(−1·2)	(367)	(~~2319~~)	(6236)
146·498	CL,M		0·950	301·9	23·3	+29·7		2545	196
			0·902	289·1	17·9	+16·6			693
			0·892	240·4	15·3	−26·7			1196
		2530a	0·746	284·8	2·2	+10·2	38	246	
		2530b	0·723	287·1	0·0	+11·5	6	41	584c
		2524	0·568	303·8	345·8	+17·4	3	29	
		2524a	0·538	303·1	343·2	+16·1	71	398	362c
		2524	0·504	307·5	339·9	+16·8	0	21	
		2528	0·280	173·2	313·3	−17·2	3	16	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2533, May 23–25. A regular spot.
Group 2534, May 23–June 5. A very large irregular group, composed chiefly of three large spots, on May 24. The preceding spot, *a*, is seen on the east limb on May 23, and *b* and *c* on the succeeding day. *b* and *c* have begun to break up into smaller spots by May 25, and *c* is no longer recognisable by June 1. *a* also has shown signs of division by May 28, and undergoes great changes of form on the succeeding days.
Group 2535, May 25. A pair of small faint spots measured together.
Group 2536, May 25. A few faint very small spots in an irregular group, following Group 2524.
Group 2537, May 25. A very small faint spot, following Group 2528.
Group 2538, May 25–28. A few faint very small spots in two clusters on May 25. The following cluster has disappeared by May 26.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
146d.498	CL,M	2538	0·648	107·2	276·2	−11·9	1	13	145c
		2539a	0·675	69·9	275·0	+12·6	5	28	
		2539b	0·735	69·4	270·3	+14·2	0	17	
		2534a	0·717	114·9	272·2	−18·3	113	755	
		2534b	0·803	112·4	264·0	−18·4	49	315	
		2534	0·816	114·7	263·1	−20·6	0	12	1927c
		2534	0·855	113·9	258·7	−20·8	4	23	
		2534c	0·863	117·1	258·5	−23·7	24	184	
		2540	0·937	108·1	246·6	−17·3	9	46	792sf
			0·831	54·5	265·4	+28·1			207
			0·855	82·6	257·1	+ 5·8			155
			0·901	65·6	253·8	+21·3			1008
			0·925	98·4	247·9	− 8·2			101
May 26		Centre			(315·3)	(−1·1)	(326)	(2144)	(7366)
147·327	M,AB		0·924	286·1	10·5	+14·5			338
			0·929	240·2	9·8	−27·9			553
I.			0·876	308·6	358·3	+32·6			211
			0·814	297·3	354·9	+21·3			166
		2530a	0·856	282·3	2·1	+10·0	30	267	360c
		2524	0·697	293·8	345·5	+15·6	6	26	
		2524	0·697	296·2	344·9	+17·2	0	33	
		2524	0·656	292·6	343·6	+13·8	0	4	397c
		2524a	0·666	295·5	342·7	+15·9	46	203	
		2524	0·634	296·4	340·2	+15·6	0	6	
		2524	0·634	298·4	339·7	+16·8	3	19	
		2528	0·319	207·5	313·0	−17·2	3	12	
		2539a	0·525	63·8	275·5	+12·6	4	16	
		2539	0·571	64·3	272·4	+13·6	0	7	
		2539b	0·610	64·3	269·7	+14·5	0	13	
		2538	0·493	113·1	276·7	−11·9	0	12	
		2534a	0·593	120·6	271·8	−18·3	111	775	
		2534	0·667	114·9	265·1	−17·0	3	18	
		2534b	0·697	115·7	263·0	−18·2	82	465	
		2534	0·733	117·9	260·5	−20·7	4	44	732c
		2534c	0·773	119·8	257·8	−22·6	26	190	
		2534	0·770	116·1	256·8	−20·4	0	21	
		2534	0·798	114·8	253·9	−20·1	0	19	
		2541	0·665	80·2	263·2	+ 5·8	7	15	
		2541	0·675	82·3	262·2	+ 4·5	0	5	
		2541	0·698	79·6	260·7	+ 6·6	0	4	
		2541	0·709	81·9	259·6	+ 5·1	0	10	
		2540	0·861	109·7	246·3	−17·4	6	45	258f
1892.				°	°	°			
147d.327	M,AB	2542a	0·996	107·0	219·6	−17·0	0	109	
			0·793	65·1	254·9	+18·9			493
I.			0·836	125·0	252·7	−29·2			265
			0·871	116·5	246·3	−23·3			219
			0·889	59·5	245·7	+26·3			349
May 27		Centre			(304·2)	(−0·9)	(331)	(2338)	(4341)
148·391	HA,AB		0·984	284·0	9·4	+13·6			301
			0·962	242·6	2·7	−26·5			484
			0·908	294·6	352·9	+21·8			184
			0·905	308·0	348·9	+33·4			427
			0·837	320·3	334·0	+39·4			111
		2530a	0·951	280·7	1·7	+ 9·9	36	240	373c
		2524	0·848	289·2	346·5	+15·7	0	5	
		2524	0·833	290·7	344·6	+16·6	0	14	402c
		2524a	0·816	290·4	342·9	+16·0	23	168	
		2524	0·790	292·0	340·1	+16·6	0	17	
		2528	0·471	232·8	313·4	−17·2	2	3	
		2538	0·310	127·9	276·0	−11·7	0	7	
		2539a	0·331	46·0	276·3	+12·5	5	44	
		2539	0·345	49·7	274·9	+12·1	0	4	
		2539	0·390	52·6	272·0	+12·9	17	56	
		2539	0·485	64·1	264·1	+11·5	0	12	
		2534a	0·431	135·0	271·7	−18·5	106	751	
		2534	0·417	129·5	270·9	−16·1	2	11	
		2534	0·505	131·3	266·7	−20·1	0	15	
		2534	0·489	124·7	265·7	−16·8	0	11	
		2534	0·522	129·2	265·0	−19·9	7	68	
		2534b	0·537	124·6	262·7	−18·4	53	290	448c
		2534	0·563	127·3	261·9	−20·6	0	19	
		2534	0·607	129·8	260·0	−23·5	0	19	
		2534	0·611	123·0	257·5	−20·1	0	9	
		2534c	0·636	128·5	257·5	−24·0	9	98	
		2541	0·441	74·9	265·2	+ 5·8	0	5	
		2540	0·716	114·4	247·3	−17·8	6	30	324c
		2540	0·775	116·0	242·8	−19·8	0	19	
		2542a	0·941	107·9	221·1	−17·1	15	96	
		2542b	0·952	109·7	219·2	−19·0	29	128	1027c
		2542c	0·968	108·6	215·6	−18·2	12	101	
		2542	0·973	110·0	214·6	−19·6	0	33	
			0·785	53·7	245·3	+27·0			448
			0·850	107·6	233·5	+15·3			439
May 28		Centre			(290·4)	(−0·8)	(322)	(2273)	(4968)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2539, May 26–June 3. Two small spots on May 26, *a* and *b*. A third small spot is seen between them on May 27. The group has greatly changed in appearance by May 28, and by May 29 has become a stream consisting of three well-defined groups, each consisting of several spots. This arrangement is retained until the disappearance of the group at the west limb.
Group 2540, May 26–29. A faint group measured as one spot on May 27.
Group 2541, May 27–June 4. A faint irregular group of spots.
Group 2542, May 27–June 4. A very irregular group which has formed into a stream by June 3.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
				°	°	°			
1892.							29	144	
149d.507	M,JG	2524*a*	0·932	287·4	342·8	+15·9	0	93	417*f*
		2539*a*	0·223	351·7	277·3	+12·0	15	138	
		2539	0·234	8·9	273·3	+12·7	10	119	
		2539	0·270	19·9	270·0	+14·0	0	19	
		2534*a*	0·312	167·4	271·5	−18·4	99	673	
		2534	0·353	158·3	267·5	−19·8	0	45	
		2534	0·362	152·1	265·1	−19·3	0	49	
		2534*b*	0·386	144·2	261·7	−18·9	43	294	
		2534	0·453	148·1	260·4	−23·2	2	18	
		2534*c*	0·480	145·1	258·0	−23·8	12	47	
		2541	0·196	71·9	264·7	+ 2·8	0	5	
		2541	0·221	62·5	264·1	+ 5·1	0	3	
		2541	0·237	78·4	262·0	+ 2·0	0	6	
		2541	0·259	71·9	261·2	+ 3·9	0	8	
		2541	0·279	62·5	261·0	+ 6·7	0	9	
		2540	0·547	123·2	246·8	−18·0	0	10	
		2542*a*	0·833	110·1	220·7	−17·0	5	81	
		2542*b*	0·850	112·4	219·3	−19·2	13	89	
		2542	0·850	110·3	218·9	−17·5	0	34	533*c*
		2542*c*	0·876	110·6	215·9	−18·3	11	117	
		2543*a*	0·976	80·3	198·3	+ 9·6	0	146	
May 29		Centre			(275·4)	(−0·7)	(210)	(2003)	(950)
							239	2054	
150·391	CL,HA		0·861	232·1	316·8	−32·2			78
			0·818	248·5	316·6	−17·8			262
		2524*a*	0·984	286·4	342·7	+16·0	34	160	973*f*
		2539*a*	0·324	313·2	277·6	+12·2	24	129	
		2539	0·284	327·3	272·7	+13·2	26	77	
		2539	0·283	338·2	269·9	+14·6	13	78	
		2534	0·382	200·6	272·0	−21·5	1	5	
		2534*a*	0·333	198·9	270·2	−18·9	84	659	
		2534	0·334	182·9	264·7	−20·0	6	52	
		2534	0·267	180·6	263·9	−16·0	4	19	
		2534*b*	0·301	173·5	261·6	−18·0	48	343	
		2534	0·383	172·0	260·4	−22·8	2	12	
		2534*c*	0·403	168·1	258·5	−23·8	3	24	
		2541	0·124	336·1	266·6	+ 5·9	3	11	
		2541	0·085	338·8	265·5	+ 4·0	0	6	
		2541	0·093	354·8	264·2	+ 4·7	0	14	
		2541	0·102	32·6	260·6	+ 4·4	2	15	
		2542*a*	0·716	113·7	220·6	−17·1	20	80	
		2542	0·733	113·8	219·2	−17·6	5	36	770*c*
		2542*b*	0·739	116·3	219·2	−19·5	13	92	
1892.									
150d.391	CL,HA	2542	0·731	112·5	219·1	−16·6	0	7	
		2542	0·751	114·5	217·8	−18·5	0	3	770*c*
		2542*c*	0·771	113·6	215·8	−18·4	19	98	
		2543*a*	0·907	79·2	199·3	+ 9·6	36	235	
		2543*b*	0·957	78·5	191·2	+10·9	16	119	538*c*
			0·807	71·8	211·6	+14·2			358
			0·952	120·6	194·2	−29·2			131
May 30		Centre			(263·7)	(−0·6)	(359)	(2274)	(3110)
151·438	M,AB		0·904	248·5	312·9	−19·6			207
		2539	0·537	293·5	280·0	+11·9	14	74	
		2539	0·514	295·3	278·2	+12·3	13	95	
		2539	0·487	300·2	275·5	+13·7	0	1	
		2539	0·454	301·7	273·2	+13·3	18	75	
		2539	0·429	308·3	270·2	+14·9	8	89	
		2534*a*	0·450	228·1	270·4	−17·9	120	777	
		2534	0·373	223·9	265·4	−16·0	2	8	
		2534*d*	0·425	215·8	265·2	−20·6	8	105	
		2534	0·367	219·3	263·9	−16·9	2	15	
		2534*b*	0·370	210·3	261·2	−19·0	38	203	
		2534	0·404	205·9	260·8	−21·7	0	6	
		2534	0·417	204·4	260·6	−22·7	5	14	
		2534	0·339	211·0	260·4	−17·3	8	74	
		2534*c*	0·426	199·2	258·7	−24·2	3	13	
		2541	0·325	288·0	267·9	+ 5·3	0	11	
		2541	0·297	292·8	265·8	+ 6·2	3	10	
		2541	0·283	287·3	265·5	+ 4·4	0	21	
		2541	0·213	290·6	261·4	+ 3·8	0	12	
		2542	0·522	122·9	222·8	−16·8	0	8	
		2542*a*	0·550	122·2	220·8	−17·4	8	46	
		2542	0·550	119·3	220·1	−16·0	0	17	
		2542	0·572	123·8	219·9	−18·9	1	13	
		2542*b*	0·587	124·7	219·2	−19·9	22	83	
		2542	0·593	120·8	217·6	−18·1	0	3	
		2542*c*	0·611	120·8	216·4	−18·6	20	101	
		2542	0·641	122·8	214·9	−20·7	0	5	
		2542	0·630	118·9	214·6	−18·1	0	12	
		2543*a*	0·778	76·8	199·8	+ 9·9	26	226	
		2543	0·841	76·8	193·7	+10·8	0	6	370*c*
		2543*b*	0·866	77·5	190·8	+10·6	16	73	
		2544	0·911	66·4	186·6	+21·1	0	9	
			0·931	64·2	183·9	+23·7			197
May 31		Centre			(249·9)	(−0·5)	(335)	(2205)	(774)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2543, May 29–June 10. A regular spot, *a*. A companion, *b*, is seen on May 30 and the three succeeding days. A second small companion is seen on May 31.
Group 2544, May 31–June 5. A small regular spot. A companion is seen on June 1 and 2.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
152d.398	CL,JG		0·969	250·0	311·7	−19·4			271
			0·897	242·9	298·0	−24·2			200
		2539	0·709	287·1	280·7	+11·8	9	56	167c
		2539	0·690	288·1	279·1	+12·1	9	59	
		2539	0·635	292·9	274·0	+14·0	12	30	
		2539	0·601	298·3	270·4	+16·3	3	11	
		2539	0·588	297·3	269·8	+15·4	0	7	
		2539	0·578	296·1	269·4	+14·4	1	10	
		2534	0·616	237·1	270·3	−19·7	0	4	594c
		2534a	0·605	239·2	270·1	−18·2	149	766	
		2534	0·539	240·3	266·1	−15·7	1	8	
		2534	0·554	235·7	265·8	−18·4	3	18	
		2534d	0·566	229·5	264·6	−21·7	26	176	
		2534	0·541	232·0	263·9	−19·6	0	27	
		2534	0·511	235·0	263·0	−17·3	4	23	
		2534	0·489	234·1	261·4	−16·9	2	29	
		2534	0·533	224·1	260·7	−22·6	0	6	
		2534	0·476	231·0	259·8	−17·6	0	15	
		2541	0·549	282·6	269·6	+ 6·6	1	14	
		2541	0·544	280·8	269·4	+ 5·6	0	5	
		2541	0·495	283·3	266·0	+ 6·2	5	16	
		2542a	0·397	137·4	220·8	−17·2	6	14	
		2542	0·431	142·2	220·8	−20·1	0	5	
		2542b	0·441	138·8	219·2	−19·6	9	50	
		2542c	0·455	134·1	217·0	−18·7	17	63	
		2542	0·494	134·8	215·2	−20·6	0	4	
		2543a	0·624	73·2	199·9	+10·1	24	168	161c
		2543b	0·741	75·4	190·5	+10·5	6	55	
		2544	0·793	62·4	188·3	+21·3	5	29	273c
		2544	0·832	64·5	183·9	+20·7	0	7	
		2545a	0·966	71·5	163·1	+17·8	16	46	597s
			0·896	65·4	176·0	+21·7			404
June 1		Centre			(237·1)	(−0·3)	(308)	(1721)	(2667)
153·613	M,AB	2539	0·877	283·6	281·4	+11·8	13	59	552c
		2539	0·830	286·3	275·8	+13·3	0	5	
		2539	0·815	287·8	274·1	+14·3	0	6	
		2539	0·799	289·2	272·3	+15·1	0	26	
		2539	0·792	290·8	271·3	+16·2	0	29	
		2539	0·773	290·5	269·6	+15·6	0	4	
		2534	0·816	246·3	273·2	−19·2	0	26	235c
		2534	0·803	243·2	271·2	−21·3	0	14	
		2534a	0·777	246·5	269·5	−18·1	96	624	
		2534	0·747	244·6	266·4	−18·8	2	40	
1892.				°	°	°			
153d.613	M,AB	2534d	0·733	238·7	263·6	−22·5	35	208	250c
		2534	0·702	244·3	262·6	−17·8	0	4	
		2534	0·708	241·7	262·4	−19·7	0	6	
		2534	0·707	236·4	260·8	−23·1	0	12	
		2534	0·687	241·4	260·7	−19·3	17	132	
		2534	0·669	243·3	259·8	−17·6	4	16	
		2534	0·684	238·7	259·7	−20·9	0	13	
		2541	0·752	279·0	269·3	+ 6·6	0	5	
		2541	0·720	276·1	266·8	+ 4·2	0	2	
		2541	0·718	278·7	266·5	+ 6·1	0	3	
		2541	0·696	276·6	264·8	+ 4·4	4	19	
		2541	0·664	276·6	262·3	+ 4·2	4	31	
		2542a	0·291	180·1	221·2	−17·0	0	8	
		2542	0·336	180·1	221·2	−19·8	0	5	
		2542b	0·336	174·4	219·1	−19·6	6	31	
		2542c	0·319	169·5	217·6	−18·4	3	12	
		2542	0·339	166·2	216·2	−19·3	0	11	
		2542	0·363	157·0	212·5	−19·6	0	11	
		2543a	0·396	62·8	200·2	+10·2	24	185	68c
		2543b	0·535	69·1	190·7	+10·8	4	17	
		2544	0·620	53·5	188·9	+21·4	3	16	
		2544	0·678	56·0	183·9	+22·0	0	4	
		2545a	0·863	68·6	163·6	+18·2	15	52	286f
			0·905	48·8	163·5	+36·4			195
June 2		Centre			(221·1)	(−0·2)	(230)	(1636)	(1586)
154·400	CL,HA		0·806	297·5	260·8	+21·7			290
		2539	0·950	282·6	281·8	+12·0	7	43	1105c
		2539	0·892	287·0	272·5	+15·3	0	38	
		2539	0·886	288·4	271·6	+16·3	0	12	
		2534a	0·879	249·6	270·4	−17·9	65	549	1921c
		2534	0·843	248·9	266·1	−17·7	0	9	
		2534b	0·836	243·5	264·2	−21·9	22	176	
		2534	0·817	249·0	263·4	−17·0	0	23	
		2534	0·797	245·7	260·8	−19·2	15	86	
		2534	0·787	247·5	260·2	−17·5	0	8	
		2534	0·795	243·5	260·1	−20·8	0	10	
		2541	0·862	277·9	269·8	+ 6·8	0	8	510c
		2541	0·840	277·1	267·4	+ 5·9	0	15	
		2541	0·832	274·9	265·7	+ 4·0	3	22	
		2541	0·790	275·2	262·6	+ 4·0	0	11	
		2542b	0·367	203·3	219·5	−19·8	4	29	
		2542c	0·339	201·4	218·2	−18·4	0	5	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2545, June 1–8. A small regular spot, *a*. A companion is seen on June 6.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
154d·400	CL,HA	2542	0·350	194·4	216·0	−19·9	2	11	
		2542	0·345	188·0	213·6	−20·0	1	7	
		2542	0·378	172·7	208·8	−22·0	3	24	
		2543*a*	0·254	47·0	199·9	+ 9·8	19	162	248*c*
		2543	0·387	55·6	191·7	+12·5	0	7	
		2544	0·505	43·4	188·9	+21·3	0	9	
		2545*a*	0·768	66·0	163·3	+18·1	10	45	311*c*
			0·848	56·7	157·8	+27·6			305
			0·878	46·9	157·8	+36·7			353
			0·885	67·7	150·6	+19·5			347
			0·936	125·3	145·6	−32·7			273
June 3		Centre			(210·7)	(−0·1)	(151)	(1309)	(5663)
155·418	M,JG		0·964	286·6	270·8	+16·0			394
			0·857	295·6	253·2	+21·7			617
			0·843	236·0	249·4	−28·0			413
		2534*a*	0·959	251·2	269·6	−18·0	73	451	
		2534*b*	0·926	245·6	262·8	−22·5	8	182	1297*c*
		2534	0·901	248·8	259·7	−19·0	13	50	
		2541	0·919	275·2	263·6	+ 4·8	0	4	517*c*
		2542*b*	0·493	226·9	219·6	−19·6	2	11	
		2542	0·445	220·0	214·8	−19·8	0	15	
		2543*a*	0·175	343·8	200·0	+ 9·6	22	165	148*c*
		2543	0·198	15·9	194·0	+10·9	0	10	
		2544	0·391	19·1	189·3	+21·6	0	6	
		2545*a*	0·621	59·2	163·1	+18·5	7	48	107*c*
			0·731	60·6	154·4	+21·0			67
			0·916	99·8	131·4	− 9·0			41
			0·983	75·5	118·3	+14·2			473
June 4		Centre			(197·2)	(+0·0)	(125)	(942)	(4074)
156·500	CL,JG		0·985	275·1	262·7	+ 5·1			221
			0·948	292·4	252·7	+21·2			494
			0·910	240·7	245·1	−26·3			506
			0·895	300·6	242·6	+27·1			172
		2534	0·988	246·9	262·9	−22·8	0	83	
		2534	0·982	250·6	261·0	−19·0	0	46	951*c*
		2546	0·606	250·7	218·5	−11·4	5	18	
		2546	0·597	248·6	217·5	−12·5	0	6	156*c*
		2546	0·571	249·0	215·7	−11·7	4	20	
		2543*a*	0·343	298·5	200·6	+ 9·5	21	126	
		2544	0·366	344·2	189·0	+20·7	0	3	
1892.				°	°	°			
156d·500	CL,JG	2545*a*	0·453	45·7	163·0	+18·5	5	28	
		2547	0·901	75·6	119·6	+13·0	0	10	624*c*
		2547*a*	0·922	72·4	116·9	+16·2	0	50	
		2548	0·984	67·5	104·2	+22·1	0	14	330*f*
		2548*a*	0·984	68·9	104·1	+20·7	0	98	
			0·971	101·4	107·3	−11·0			196
June 5		Centre			(182·9)	(+0·1)	(35)	(502)	(3650)
157·473	HA,M		0·955	297·7	240·5	+26·4			313
			0·926	249·8	236·2	−18·5			468
			0·928	240·6	234·9	−27·0			551
			0·837	258·0	226·0	− 9·9			287
		2546	0·766	254·7	218·7	−11·5	4	23	
		2546	0·723	254·9	215·1	−10·7	7	18	1166*s*
		2543*a*	0·537	287·6	201·1	+ 9·5	20	124	
		2545*a*	0·335	20·5	162·9	+18·4	3	13	
		2545	0·377	16·6	163·4	+21·3	0	2	
		2547	0·783	73·7	119·8	+12·8	0	4	
		2547*a*	0·818	69·6	117·1	+16·6	3	17	470*c*
		2549	0·886	101·3	108·3	− 9·8	0	13	203*sf*
		2548*a*	0·928	67·7	103·6	+20·7	17	140	
		2548	0·954	68·7	98·9	+20·3	0	14	439*c*
			0·793	32·0	135·5	+42·3			97
			0·979	110·8	92·9	−20·3			253
June 6		Centre			(170·0)	(+0·2)	(54)	(368)	(4247)
158·428	HA,JG		0·877	250·7	216·8	−16·6			814
			0·857	286·1	215·1	+14·0			180
		2543*a*	0·704	283·1	201·2	+ 9·5	15	116	175*c*
		2545*a*	0·326	343·3	162·9	+18·5	2	19	
		2547	0·657	66·4	118·8	+15·5	0	3	
		2547*a*	0·685	64·6	117·1	+17·3	0	7	275*c*
		2549	0·765	103·4	108·4	− 9·9	0	6	
		2548*a*	0·840	65·1	102·8	+20·9	23	137	352*f*
		2550*a*	0·962	80·4	83·6	+ 9·3	11	130	193*c*
			0·946	108·4	87·6	−17·2			525
June 7		Centre			(157·3)	(+0·4)	(51)	(418)	(2514)
159·406	CL,M		0·951	257·3	215·6	−11·9			367
			0·940	247·3	212·5	−21·1			480
		2543*a*	0·841	280·9	201·0	+ 9·5	20	117	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2546, June 5–6. A small group of three spots, two of which are measured together on June 6.
Group 2547, June 5–7. A small spot, *a*, with a small companion.
Group 2548, June 5–14. A large regular spot, *a*, sometimes attended by a companion.
Group 2549, June 6–9. A small spot.
Group 2550, June 7–18. A regular spot, *a*, on June 7 and 8. It has largely broken up by June 9 and 10, and several fresh spots have appeared. By June 11, the group consists of two large spots, *a* and *b*, united and surrounded by several small spots. This arrangement of the group is maintained until its disappearance at the west limb.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
159d·406	CL,M	2551*a*	0·682	306·1	181·4	+24·0	3	14	
		2551	0·649	307·3	178·5	+23·5	0	2	
		2545*a*	0·431	314·6	163·1	+18·0	0	3	
		2549	0·605	107·3	108·7	− 9·9	2	10	
		2548*a*	0·717	60·4	102·6	+21·1	27	121	252*c*
		2550*a*	0·876	79·1	83·8	+ 9·8	14	111	445*p*
			0·889	109·8	83·4	−17·3			484
June 8		Centre			(144·4)	(+0·5)	(66)	(378)	(2028)
160·414	CL,JG		0·979	248·7	208·1	−20·7			278
		2543*a*	0·941	279·8	201·1	+ 9·4	10	72	339*nf*
		2551*a*	0·808	300·1	180·9	+24·2	0	6	
		2552	0·293	36·9	120·7	+14·1	0	3	
		2553	0·397	126·1	112·0	−12·9	0	5	
		2549	0·417	115·2	108·7	− 9·6	0	5	
		2548*a*	0·572	51·7	102·4	+21·2	11	90	161*c*
		2548	0·582	53·7	101·2	+20·6	0	7	
		2550*a*	0·741	77·0	84·1	+10·0	16	85	421*c*
		2550	0·749	80·2	83·2	+ 7·7	0	9	
		2550	0·784	78·9	80·1	+ 9·1	0	14	
		2554*a*	0·971	79·7	55·3	+10·1	0	43	1067*c*
June 9		Centre			(131·1)	(+0·6)	(37)	(339)	(2266)
161·397	M,AB	2543*a*	0·994	279·1	201·5	+ 9·1	0	69	351*nf*
		2555	0·501	298·4	144·9	+14·4	0	6	
		2555	0·465	301·4	142·1	+14·6	0	8	
		2556	0·497	314·5	139·8	+21·3	0	2	
		2556	0·498	327·3	135·3	+25·4	0	13	
		2556	0·492	319·7	138·1	+22·6	3	11	
		2548*a*	0·432	35·5	102·4	+21·2	10	94	87*c*
		2548	0·433	39·2	101·1	+20·2	2	8	
		2550*b*	0·512	75·7	88·1	+ 7·9	13	71	
		2550	0·551	76·6	85·4	+ 7·9	7	59	
		2550*a*	0·576	74·0	84·0	+ 9·7	12	69	
		2550	0·627	77·2	80·0	+ 8·6	0	8	
		2554*a*	0·890	79·1	55·7	+10·0	10	35	587*f*
June 10		Centre			(118·0)	(+0·7)	(57)	(453)	(1025)
162·408	CL,JG		0·848	286·7	161·5	+14·5			157
		2555	0·664	291·7	144·2	+14·9	0	8	175*c*
		2555	0·639	292·8	142·1	+15·0	0	11	
1892.				°	°	°			
162d·408	CL,JG	2556	0·636	307·6	137·9	+23·5	5	14	
		2556	0·615	310·4	135·5	+24·1	0	7	
		2557	0·369	312·2	121·1	+15·2	2	8	
		2557	0·369	315·2	120·3	+16·0	0	4	
		2548*a*	0·361	6·2	102·3	+21·8	8	57	
		2548	0·342	10·4	100·9	+20·5	0	3	
		2550*b*	0·297	65·1	89·0	+ 8·0	27	180	255*c*
		2550	0·302	69·5	88·2	+ 6·9	0	5	
		2550	0·348	73·7	85·1	+ 6·4	0	3	
		2550*a*	0·366	68·1	84·7	+ 8·7	15	160	
		2558	0·767	122·5	59·9	−23·6	0	7	
		2554*a*	0·765	77·5	55·5	+10·1	4	50	609*f*
			0·840	116·5	51·0	−21·4			101
			0·889	126·3	48·0	−31·2			153
			0·930	75·1	37·0	+14·2			198
June 11		Centre			(104·7)	(+0·9)	(61)	(517)	(1648)
163·474	AB,JG		0·950	284·9	161·8	+14·5			124
		2556	0·780	298·7	138·1	+22·6	0	5	
M.		2548*a*	0·410	331·9	102·5	+22·1	5	35	
		2550*b*	0·117	3·3	90·1	+ 7·6	13	57	
		2550*a*	0·156	35·1	85·3	+ 8·3	5	74	
		2550	0·189	36·5	84·0	+ 9·7	0	11	
		2554*a*	0·584	73·5	56·0	+10·3	0	12	
		2559*a*	0·841	61·1	36·7	+24·5	5	20	238*f*
			0·887	72·3	29·1	+16·1			562
June 12		Centre			(90·5)	(+1·0)	(28)	(214)	(924)
164·426	HA,AB		0·946	290·8	147·9	+20·0			127
			0·914	286·0	143·2	+15·0			206
			0·874	297·5	136·1	+24·3			369
		2548	0·533	308·6	104·3	+20·3	0	9	161*c*
		2548*a*	0·533	314·1	102·4	+22·7	4	19	
		2550*b*	0·245	299·6	90·4	+ 8·0	29	124	
		2550*a*	0·181	319·1	84·9	+ 8·9	16	139	
		2550	0·196	324·9	84·5	+10·3	9	40	
		2554*a*	0·405	66·1	56·0	+10·4	7	19	
		2554	0·432	63·3	54·9	+12·1	1	8	
		2560*a*	0·689	139·7	46·9	−30·7	0	5	158*c*
		2560	0·679	131·6	43·8	−25·8	0	7	
		2560	0·718	140·1	45·0	−32·4	3	8	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

The photograph on June 11 was taken through clouds.
Group 2551, June 8 and 9. A small spot, *a*, with a very small companion on June 8.
Group 2552, June 9. A very small spot.
Group 2553, June 9. A very small spot.
Group 2554, June 9–17. A regular spot, *a*. It has broken up by June 13, and forms a stream on the two succeeding days. The following spots diminish, and only one spot is seen on June 17.
Group 2555, June 10 and 11. Two very small spots.
Group 2556, June 10–12. A small irregular group.
Group 2557, June 11. Two very small spots.
Group 2558, June 11. A small spot.
Group 2559, June 12–23. A small regular spot, *a*, with occasionally a very small companion from June 12–16. A great change has occurred by June 17, and the group on that day presents the appearance of a fine stream, consisting of three large spots, *a*, *b*, and *c*, and a fourth, an irregular spot, south of the leader, *a*. The spots of the stream have almost coalesced by June 20, and form an S-shaped figure, and the group is measured as one spot on that date.
Group 2560, June 13–22. A small scattered group from June 13 to June 15. The group consists of a number of small spots in a straight stream on June 16, three of which, though small, are well defined. There has been a very great increase in the size of the spots by the succeeding day. They still form a stream, of which the last spot, *a*, is the largest.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
164d·426	HA,AB	2559*a*	0·730	55·9	36·4	+24·9	11	38	163*c*
		2559	0·758	56·9	33·6	+25·2	0	10	
		2561	0·927	111·6	12·1	−19·5	4	12	837*c*
		2561	0·966	114·4	5·0	−23·2	12	40	
		2561	0·971	117·4	4·4	−26·2	0	17	
		2562*a*	0·978	77·4	0·3	+12·5	32	134	628*np*
		2562*b*	0·999	77·5	350·6	+12·5	0	279	
			0·769	105·6	29·2	−11·2			178
			0·811	67·0	26·0	+19·1			163
			0·857	122·7	24·2	−26·9			318
			0·899	55·2	18·4	+31·3			207
June 13		Centre			(78·0)	(−1·1)	(128)	(908)	(3515)
165·293	HA,AB		0·948	295·4	136·4	+24·4			362
			0·695	250·8	108·5	−12·3			159
I.		2563	0·799	289·4	118·0	+16·1	0	12	330*c*
		2548*a*	0·659	304·5	102·5	+22·8	1	8	227*c*
		2550*b*	0·420	286·5	90·4	+ 7·9	18	76	
		2550	0·362	288·8	86·6	+ 7·8	0	4	
		2550*a*	0·354	292·6	85·7	+ 8·9	29	107	246*c*
		2550	0·346	297·2	84·6	+10·2	4	11	
		2550	0·341	301·0	83·8	+11·2	0	2	
		2554	0·247	41·3	57·0	+11·8	0	3	
		2554*a*	0·241	47·9	56·1	+10·4	13	27	164*c*
		2554	0·282	44·2	54·9	+12·8	0	2	
		2554	0·270	51·4	54·2	+10·8	3	14	
		2560*a*	0·587	150·3	47·1	−29·4	0	23	147*c*
		2560	0·642	149·1	43·7	−32·2	4	18	
		2559*a*	0·613	47·7	36·5	+25·3	7	27	
		2561	0·848	113·4	11·3	−19·0	5	15	
		2561	0·908	115·7	4·3	−22·6	8	35	1446*c*
		2561	0·921	123·5	4·3	−29·9	0	3	
		2561	0·918	118·5	3·4	−25·4	0	24	
		2562*a*	0·926	76·7	359·2	+12·8	34	188	689*p*
		2562*b*	0·967	77·1	351·6	+12·8	0	295	
			0·829	129·8	18·6	−31·1			585
			0·815	52·5	18·1	+30·5			190
June 14		Centre			(66·5)	(+1·2)	(126)	(894)	(4545)
166·394	CL,JG		0·938	286·6	120·9	+16·0			428
			0·802	295·9	102·4	+21·3			267
1892.				°	°	°			
166d·394	CL,JG	2550*b*	0·637	281·1	90·9	+ 8·0	11	80	
		2550	0·607	278·5	88·9	+ 6·1	0	5	
		2550	0·600	281·5	88·2	+ 7·9	2	16	370*c*
		2550*a*	0·580	283·3	86·6	+ 8·7	13	77	
		2550	0·554	287·0	84·4	+10·4	0	10	
		2554	0·182	329·8	57·2	+10·3	0	7	
		2554*a*	0·175	335·8	56·1	+10·4	0	12	
		2554	0·196	344·3	55·0	+12·1	0	6	
		2554	0·174	345·4	54·4	+11·0	0	10	
		2560	0·511	179·9	51·8	−29·3	0	9	
		2560	0·534	179·4	51·5	−30·9	0	12	
		2560*a*	0·512	173·5	48·1	−29·1	0	5	
		2559*a*	0·463	30·6	36·9	+24·6	4	11	
		2561	0·698	120·0	12·2	−19·4	0	12	510*c*
		2561	0·787	120·7	4·9	−22·8	0	12	
		2562*a*	0·794	75·5	0·2	+12·2	6	70	
		2562	0·797	77·4	359·7	+10·8	0	26	
		2562*b*	0·858	77·0	353·5	+11·8	17	188	768*c*
		2562	0·900	79·0	348·2	+10·4	0	18	
		2562	0·919	77·3	345·6	+12·2	0	9	
			0·850	128·4	1·1	−31·0			327
			0·908	70·4	347·9	+18·3			639
			0·988	112·1	332·4	−21·5			248
June 15		Centre			(51·9)	(+1·3)	(53)	(595)	(3557)
167·191	CL,JG		0·935	255·1	109·4	−13·4			448
			0·883	293·8	101·5	+21·6			425
I.			0·808	241·4	91·1	−21·8			485
		2550*b*	0·771	279·1	91·4	+ 7·9	13	53	
		2550	0·753	276·6	90·0	+ 5·9	0	2	332*c*
		2550*a*	0·723	280·7	87·2	+ 8·7	20	114	
		2550	0·608	281·2	78·3	+ 7·9	0	2	223*c*
		2554	0·299	301·5	56·4	+10·3	2	6	
		2554	0·308	307·6	55·8	+12·1	0	2	
		2554	0·279	305·9	54·6	+10·7	0	2	
		2560	0·555	199·1	53·5	−30·1	2	7	
		2560	0·539	196·4	51·5	−29·6	1	3	
		2560	0·550	195·0	50·9	−30·6	3	10	179*c*
		2560	0·540	192·4	49·1	−30·3	0	5	
		2560	0·558	190·1	48·0	−31·8	3	6	
		2559*a*	0·411	9·9	36·9	+25·2	5	13	
		2559	0·389	11·5	36·6	+23·8	0	5	
		2561	0·583	126·8	11·9	−19·2	0	8	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2561, June 13–23. A number of small spots in an irregular group. The form of the group changes considerably from day to day.
Group 2562, June 13–25. A pair of spots, *a* and *b*. *a*, the preceding spot, appears distinctly double by June 15, but is still measured as one. *b* is a large regular spot. The group appears as a stream of spots until June 20. The preceding spots gradually diminish, and are not seen after that date. *b* remains alone on June 22 and the succeeding days.
Group 2563, June 14. A small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
167d·191	CL, JG	2561	0·687	125·8	4·5	−22·5	2	11	496p
		2562a	0·683	73·5	359·5	+12·2	26	111	
I.		2562	0·703	74·2	357·8	+12·0	3	15	
		2562	0·716	74·3	356·7	+12·1	3	8	
		2562b	0·754	75·0	353·4	+12·2	49	263	648c
		2562	0·820	76·9	347·0	+11·5	8	20	
		2562	0·836	75·6	345·5	+12·7	2	15	
		2564	0·939	112·3	333·8	−20·3	31	76	
		2564	0·958	113·4	330·3	−21·9	4	18	769c
		2564	0·961	111·4	329·3	−20·1	0	14	
			0·848	66·3	345·5	+20·7			400
			0·914	50·1	340·8	+36·5			190
			0·934	71·7	333·2	+17·6			533
June 16		Centre			(41·4)	(+1·4)	(177)	(789)	(5128)
168·623	JG, AB		0·888	246·7	82·3	−19·7			610
		2550	0·913	278·1	88·1	+ 8·0	56	379	398c
		2554	0·547	287·4	54·5	+10·7	0	5	
		2560	0·691	221·0	53·9	−29·9	22	117	
		2560	0·673	217·5	50·9	−30·7	0	28	
		2560	0·644	218·8	49·8	−28·6	10	51	226c
		2560	0·628	216·8	47·8	−28·6	0	3	
		2460a	0·653	212·4	46·7	−31·9	24	236	
		2559a	0·468	329·9	37·5	+25·3	27	137	
		2559	0·447	328·4	37·3	+23·8	0	8	
		2559b	0·441	337·9	33·1	+25·6	6	50	127c
		2559c	0·465	334·3	32·7	+26·2	9	32	
		2561	0·481	148·5	6·8	−22·5	2	8	
		2561	0·477	142·9	4·7	−20·7	0	4	
		2562a	0·413	64·8	0·2	+11·5	9	51	
		2562	0·411	67·4	359·9	+10·5	5	15	
		2562	0·485	67·5	355·4	+12·1	2	26	177c
		2562b	0·506	69·7	353·7	+11·5	23	192	
		2562	0·584	74·0	347·8	+10·5	0	5	
		2564a	0·757	118·0	337·5	−19·6	27	186	
		2564	0·811	116·5	332·0	−20·2	0	7	
		2564b	0·829	119·1	330·9	−22·7	14	50	592c
		2564	0·834	117·0	329·8	−21·2	4	21	
			0·772	68·8	333·8	+17·2			307
			0·894	110·4	321·3	−17·3			93
une 17		Centre			(22·5)	(+1·6)	(240)	(1611)	(2530)
1892.				°	°	°			
169d·447	CL, M		0·970	244·1	85·0	−24·6			254
			0·952	251·7	82·0	−16·8			446
		2550	0·973	278·0	88·1	+ 8·2	0	87	
		2550	0·965	278·9	86·1	+ 9·0	0	47	524c
		2560	0·794	229·1	55·2	−30·1	16	99	
		2560	0·749	228·5	51·0	−28·4	12	123	
		2560	0·759	225·9	50·6	−30·5	2	47	624c
		2560	0·720	225·8	47·4	−28·8	0	13	
		2560a	0·742	221·5	47·0	−32·3	68	398	
		2559	0·548	313·7	37·0	+23·6	0	7	
		2559a	0·557	316·4	36·5	+25·2	34	246	
		2559c	0·546	321·2	33·9	+26·6	0	7	
		2559b	0·518	321·4	32·4	+25·3	12	105	
		2561	0·407	174·4	9·1	−22·2	0	4	
		2561	0·422	171·1	7·5	−23·0	0	7	
		2562	0·245	52·6	0·1	+10·1	2	8	
		2562a	0·258	49·1	0·1	+11·2	9	41	
		2562	0·327	56·8	355·3	+11·8	0	12	
		2562b	0·341	60·9	353·9	+11·0	21	154	
		2562	0·387	65·2	350·6	+10·8	1	9	
		2564a	0·631	125·4	338·4	−20·0	38	248	
		2564	0·630	122·6	337·6	−18·4	0	11	
		2564	0·660	124·0	336·0	−20·3	0	8	
		2564	0·692	124·8	333·9	−21·9	0	5	
		2564	0·716	120·6	330·7	−20·1	0	5	
		2564b	0·740	124·3	329·9	−23·4	3	28	
		2564	0·737	122·2	329·5	−21·8	1	22	
		2565a	0·975	78·7	294·5	+11·4	30	218	648f
June 18		Centre			(11·5)	(+1·6)	(249)	(1959)	(2496)
170·523	CL, JG		0·894	283·4	60·2	+12·8			373
		2560	0·900	234·5	55·3	−30·5	20	96	
		2560	0·876	234·0	52·0	−29·9	8	97	
		2560	0·861	235·5	50·7	−28·0	10	37	779c
		2560a	0·848	229·8	46·9	−31·9	42	611	
		2559a	0·698	305·3	36·2	+25·2	29	391	
		2559c	0·680	309·3	33·3	+26·9	6	63	362c
		2559b	0·653	308·5	31·6	+25·4	16	99	
		2566	0·395	308·2	16·0	+15·8	0	4	
		2566	0·324	315·0	11·0	+15·0	0	13	
		2561	0·397	198·2	4·9	−20·2	0	7	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2564, June 16–26. A very fine group. The leading spot, *a*, is a large regular spot on June 16, 17 and 18; the following spot, *b*, is divided into two portions by a bridge. *a* has become diffused and is much elongated in the direction of motion by June 19, and is followed by a stream of small spots, of which *b* is the last. The group consists of three large spots with small companions on June 21. During the succeeding days *a* divides into two spots *c* and *d*, and *d* likewise breaks up into two spots, *e* and *f*.

Group 2565, June 18–29. A regular spot, *a*, from whose north side small spots continually break off. Two fresh spots, *b* and *c*, are seen considerably in advance of *a* on June 21. *b* moves forward in longitude until June 28, when it has disappeared. *a* and *c* continually approach until June 27 and the succeeding days, when they are measured together as one spot, *d*.

Group 2566, June 19. Two small spots.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for day).
1892.				°	°	°			
170d·523	CL, JG	2561	0·434	192·3	3·0	−23·2	0	4	
		2562*a*	0·177	345·1	0·0	+11·6	5	22	
		2562	0·158	343·4	359·9	+10·5	0	10	
		2562	0·172	10·1	355·5	+11·5	0	5	
		2562*b*	0·168	19·8	354·0	+10·8	22	170	
		2562	0·202	24·0	352·5	+12·4	0	8	
		2562	0·169	33·2	351·9	+ 9·9	0	16	
		2564*a*	0·479	140·1	338·3	−19·8	83	327	
		2564	0·533	131·4	332·4	−18·9	0	4	558*c*
		2564*b*	0·608	132·7	328·4	−22·7	5	67	
		2565*a*	0·901	77·8	293·4	+11·8	27	352	
		2567*a*	0·954	78·4	285·0	+11·6	53	681	
		2567	0·970	80·5	281·5	+ 9·7	0	47	1207*c*
		2567	0·985	81·0	277·3	+ 9·2	0	38	
June 19		Centre			(357·3)	(+1·8)	(326)	(3169)	(3279)
171·403	HA, AB		0·947	280·7	56·8	+10·7			433
		2560	0·957	237·5	54·5	−30·2	0	50	
		2560	0·936	238·8	50·8	−28·2	0	16	628*c*
		2560*a*	0·919	233·5	46·3	−32·1	106	941	
		2559	0·795	301·1	34·4	+25·4	72	624	284*c*
		2561	0·504	212·8	2·9	−23·1	0	9	
		2562*	0·293	300·6	0·5	+10·4	0	3	
		2562*a*	0·298	305·4	0·0	+11·8	7	18	
		2562*	0·282	308·2	358·7	+11·9	0	2	
		2562	0·237	312·7	355·9	+11·1	0	4	
		2562*b*	0·216	315·3	354·6	+10·7	22	147	
		2562	0·186	319·3	352·7	+10·0	0	4	
		2564*a*	0·405	164·8	339·2	−21·0	86	593	
		2564	0·376	156·6	336·7	−18·2	0	16	
		2564	0·401	154·1	335·1	−19·2	23	141	
		2564	0·419	149·3	332·7	−19·2	0	2	
		2564*b*	0·484	147·4	329·4	−22·2	0	26	
		2564	0·524	148·8	328·4	−24·7	0	4	
		2565	0·789	74·9	294·5	+13·0	6	51	
		2565*a*	0·798	77·0	293·4	+11·5	24	198	
		2565	0·838	76·1	289·4	+12·7	0	9	1166*c*
		2567*a*	0·878	78·0	284·7	+11·4	66	494	
		2567	0·901	80·0	281·7	+ 9·8	0	18	
		2567	0·931	80·5	277·4	+ 9·5	0	26	
		2568	0·887	102·6	284·3	−10·3	0	11	124*c*
			0·964	110·2	273·0	−18·8			1067
June 20		Centre			(345·7)	(+1·9)	(412)	(3407)	(3702)

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
172d·401	CL, JG		0·903	284·0	36·5	+13·5			309
		2560	0·978	241·1	47·4	−27·7	0	54	
		2560*a*	0·975	237·1	45·8	−31·4	81	1125	1190*c*
		2559	0·906	296·8	35·4	+25·0	42	309	
		2559*b*	0·878	298·6	31·1	+25·9	15	118	655*c*
		2561	0·640	230·1	4·4	−22·5	0	10	
		2561	0·627	230·5	3·7	−21·7	0	3	128*c*
		2561	0·622	227·3	2·1	−23·1	6	35	
		2562*b*	0·404	291·6	354·8	+10·4	10	129	
		2562	0·365	293·2	352·2	+10·1	0	3	
		2564	0·360	195·2	338·1	−18·2	2	34	
		2564*a*	0·401	192·4	337·7	−21·0	88	748	
		2564	0·383	179·5	332·2	−20·4	3	12	
		2564*b*	0·404	173·5	329·6	−21·5	3	50	
		2564	0·433	170·2	327·8	−23·2	0	3	
		2565*b*	0·496	69·9	304·1	+11·5	0	8	
		2565*c*	0·521	70·9	302·4	+11·5	1	5	
		2565	0·633	72·0	294·4	+12·8	2	53	
		2565*a*	0·630	74·3	294·3	+11·4	16	117	
		2567	0·744	72·8	285·5	+14·0	3	18	
		2567*a*	0·745	77·2	284·9	+10·8	37	379	541*c*
		2567	0·771	79·0	282·4	+ 9·7	0	23	
		2567	0·790	78·6	280·7	+10·3	0	7	
			0·929	118·9	268·0	−25·8			197
			0·921	111·9	267·8	−19·2			1121
			0·949	67·0	261·8	+22·4			302
June 21		Centre			(332·4)	(+2·0)	(309)	(3243)	(4443)
173·401	HA, AB		0·918	285·7	25·3	+15·2			262
			0·883	238·7	16·1	−26·0			244
		2560*a*	0·995	237·0	40·7	−32·5	0	60	
		2559*a*	0·975	296·1	35·8	+25·9	26	227	
		2559*c*	0·962	296·2	32·4	+25·8	0	95	480*c*
		2559*b*	0·951	297·9	29·8	+27·1	0	47	
		2561	0·775	238·7	4·7	−22·2	0	13	
		2561	0·751	235·4	1·5	−23·6	0	31	64*c*
		2562*b*	0·596	284·6	354·9	+10·4	11	89	
		2564*c*	0·542	219·6	341·1	−22·6	44	254	
		2564*d*	0·467	216·3	336·2	−19·9	58	449	
		2564	0·445	209·7	332·8	−20·6	0	5	
		2564	0·454	199·9	328·8	−23·0	0	56	
		2565*b*	0·288	53·8	305·5	+11·9	20	47	
		2565	0·351	54·4	302·2	+13·8	0	3	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2567, June 19–29. A very large spot, *a*, followed by a short stream. *a* breaks up on the succeeding days, and its south division has become a regular spot, *b*, by June 21. The group diminishes rapidly after June 26.
Group 2568, June 20. A small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
173d.401	HA,AB	2565c	0·345	61·9	301·2	+11·4	13	47	
		2565a	0·440	66·2	295·0	+12·2	22	129	
		2565	0·467	66·2	293·3	+12·8	0	12	
		2565	0·555	70·6	286·9	+12·5	0	11	
		2567	0·585	71·9	284·7	+12·2	4	164	
		2567	0·592	68·3	284·7	+14·4	5	42	
		2567a	0·582	76·0	284·4	+ 9·8	48	229	
		2567	0·612	76·2	282·2	+10·1	0	14	
		2567	0·656	68·2	280·1	+15·8	0	10	
		2567	0·639	74·4	280·4	+11·6	0	4	
		2569	0·976	108·6	243·4	−17·6	0	24	197c
			0·860	117·7	264·0	−22·3			581
			0·895	64·5	257·5	+23·6			396
June 22		Centre			(319·2)	(+2·2)	(251)	(2062)	(2224)
174·187	CL,M		0·911	285·5	14·0	+15·1			616
			0·916	305·1	11·6	+32·8			176
I.			0·836	228·2	356·1	−32·2			560
		2559	0·996	294·8	33·8	+24·9	0	80	778n
		2561	0·870	242·0	5·0	−22·8	0	13	1458p
		2561	0·850	239·0	1·9	−24·5	0	11	
		2562b	0·737	281·8	355·7	+10·2	19	95	396c
		2564	0·648	234·1	342·7	−20·3	0	3	
		2564c	0·651	229·8	341·3	−22·8	56	284	
		2564	0·641	231·6	341·3	−21·4	0	21	
		2564d	0·575	229·5	336·4	−19·8	75	412	
		2564	0·515	220·7	329·8	−20·8	0	4	
		2564	0·535	215·7	328·6	−23·5	0	6	
		2564	0·521	217·1	328·6	−22·3	0	8	
		2564	0·521	213·3	326·9	−23·5	0	4	
		2565b	0·173	13·3	306·5	+11·9	23	87	
		2565	0·195	22·0	304·5	+12·7	0	5	
		2565	0·223	25·1	303·2	+13·9	0	3	
		2565c	0·207	36·3	301·6	+11·8	18	83	
		2565a	0·275	52·1	296·0	+12·0	30	130	
		2565	0·295	49·5	295·5	+13·2	4	16	
		2565	0·353	51·7	292·2	+14·8	0	6	
		2567	0·426	64·5	285·7	+12·7	6	79	
		2567	0·450	60·4	285·0	+14·9	9	33	
		2567a	0·436	69·7	284·3	+10·8	54	253	
		2567	0·478	67·9	282·0	+12·4	0	21	
		2570	0·768	67·7	260·5	+18·4	0	6	478s
		2570	0·787	67·8	258·7	+18·7	0	3	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
174d.176	CL,M	2571	0·868	130·5	257·2	−32·8	8	32	188c
I. 187		2571	0·888	129·6	254·3	−33·0	0	14	
		2569	0·929	109·8	242·7	−17·4	14	44	450f
			0·813	116·6	258·4	−19·9			690
			0·843	126·1	258·3	−28·2			313
			0·865	70·0	250·1	+18·4			120
			0·888	61·7	248·5	+26·0			171
			0·962	116·1	237·7	−24·3			365
			0·967	58·7	235·0	+30·7			151
June 23		Centre			(308·8)	(+2·3)	(316)	(1756)	(6910)
175·408	M,JG		0·926	241·3	356·4	−25·3			469
			0·830	293·8	346·9	+20·9			191
		2562b	0·892	280·3	355·6	+10·3	14	59	515n
		2564c	0·801	238·7	340·5	−23·0	14	181	435c
		2564e	0·762	240·7	337·6	−20·1	19	173	
		2564f	0·725	239·7	334·2	−19·6	26	137	
		2572	0·595	205·7	310·0	−30·0	0	5	
		2565b	0·291	300·7	307·4	+10·8	13	60	
		2565c	0·196	321·0	299·9	+11·1	8	40	
		2565a	0·178	333·6	297·3	+11·5	17	91	
		2567	0·243	31·7	285·2	+14·3	0	19	
		2567a	0·206	44·3	284·3	+10·8	45	244	
		2573	0·412	160·3	284·2	−20·4	0	9	
		2573	0·464	157·3	281·5	−22·9	0	11	
		2571	0·762	139·8	256·6	−33·6	6	51	
		2571	0·785	136·7	253·3	−32·9	0	10	
		2569	0·804	114·3	242·6	−17·8	0	13	259c
		2569	0·837	113·7	239·1	−18·2	0	8	
			0·826	110·7	239·6	−15·5			259
June 24		Centre			(292·7)	(+2·4)	(162)	(1111)	(2128)
176·413	CL,HA		0·839	290·1	334·1	+17·9			281
		2562b	0·971	279·8	355·4	+10·1	7	59	953n
		2564c	0·911	243·0	341·2	−23·3	13	130	704c
		2564e	0·885	245·6	338·3	−20·2	21	219	
		2564f	0·855	245·7	334·7	−19·2	17	129	
		2572	0·683	215·7	307·0	−31·3	0	5	
		2565c	0·498	287·5	308·1	+10·8	11	54	
		2565	0·439	293·0	303·6	+12·1	0	7	
		2565b	0·398	294·4	300·9	+11·8	6	116	
		2565a	0·360	296·5	298·4	+11·6	11	90	

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

Group 2569, June 22–25 A cluster of small spots.
Group 2570, June 23. Two small spots.
Group 2571, June 23–26. A cluster of very small spots.
Group 2572, June 24–27. A very small faint spot on June 24 and 25. A short stream of small spots on June 26 and 27.
Group 2573, June 24–29. Several small spots in an irregular group. Only one spot remains on June 27 and the succeeding days.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
176d.413	CL,HA	2565	0·309	305·4	294·2	+12·7	0	17	
		2567	0·216	320·0	287·4	+12·0	0	11	
		2567	0·216	327·0	286·2	+12·9	0	14	
		2567*a*	0·176	330·0	284·4	+11·2	28	213	
		2567	0·208	339·2	283·6	+13·6	0	26	
		2573	0·399	192·9	284·7	−20·3	1	17	
		2573	0·401	187·5	282·5	−20·9	0	7	
		2573	0·444	184·5	281·5	−23·6	1	10	
		2573	0·420	184·3	281·2	−22·2	0	3	
		2571	0·671	150·8	256·3	−33·4	4	24	
		2571	0·686	147·9	253·6	−33·2	3	16	
		2569	0·702	119·5	239·4	−18·2	0	6	178*f*
		2574*a*	0·721	60·2	236·7	+22·8	0	7	106*c*
		2574*b*	0·755	60·3	233·7	+23·7	0	8	
			0·903	113·8	217·9	−20·1			323
			0·900	104·3	216·6	−11·7			121
			0·921	79·4	212·4	+10·7			249
June 25		Centre			(279·3)	(+2·5)	(123)	(1188)	(2915)
177·200	JG,AB		0·913	288·7	334·4	+18·1			378
			0·895	243·5	328·6	−22·2			512
I.		2564*c*	0·970	244·4	342·0	−24·0	16	130	
		2564*e*	0·954	247·6	338·9	−20·4	36	176	811*c*
		2564*f*	0·931	247·2	334·7	−20·1	11	100	
		2565	0·717	287·1	313·7	+14·0	0	7	83*c*
		2565*b*	0·646	283·4	308·5	+10·6	9	37	
		2565*c*	0·555	287·3	301·5	+11·7	15	86	
		2565*a*	0·520	288·1	299·1	+11·5	11	72	114*c*
		2565	0·484	288·8	296·6	+11·2	0	6	
		2572	0·783	226·3	309·9	−30·7	0	6	139*c*
		2572	0·775	224·9	308·5	−31·2	0	10	
		2567	0·357	299·4	287·4	+12·5	0	26	
		2567	0·340	294·7	287·1	+10·6	0	4	
		2567*a*	0·312	300·6	284·7	+11·6	34	217	
		2567	0·319	309·9	283·5	+14·3	0	10	
		2567	0·299	313·7	281·7	+14·4	0	8	
		2573	0·479	216·3	286·4	−20·1	7	16	
		2573	0·468	213·9	285·0	−20·3	0	10	
		2573	0·453	205·5	280·9	−21·5	0	12	
		2573	0·472	203·8	280·8	−23·0	0	3	
		2573	0·489	202·6	280·7	−24·1	0	7	
		2571	0·621	161·5	255·3	−33·4	2	21	175*c*
		2571	0·631	158·6	253·0	−33·4	1	10	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
177d.193	JG,AB	2574*a*	0·600	54·2	237·2	+22·6	1	5	
I.			0·881	114·6	210·7	−20·1			470
			0·921	78·1	202·0	+11·9			226
June 26		Centre			(268·9)	(−2·6)	(143)	(979)	(2908)
178·398	HA,JG		0·985	287·8	333·2	+18·0			508
			0·985	248·0	331·0	−21·1			688
			0·935	309·6	318·3	+37·7			400
		2572	0·899	234·1	310·4	−30·3	0	5	
		2565*b*	0·836	280·8	309·4	+10·5	0	16	330*c*
		2565*d*	0·747	283·6	300·7	+11·9	24	165	
		2567	0·611	286·5	289·7	+12·1	0	4	
		2567	0·586	285·5	288·0	+11·2	0	54	
		2567*a*	0·547	286·9	285·1	+11·4	33	168	
		2573	0·657	234·4	287·6	−20·2	7	45	
		2575	0·322	330·9	262·5	+19·0	0	2	
		2575	0·307	331·9	261·7	+18·3	0	3	
		2575	0·293	337·5	259·8	+18·3	0	3	
		2574*a*	0·416	37·4	237·3	+21·8	10	30	
June 27		Centre			(253·0)	(+2·7)	(74)	(495)	(1926)
179·463	M,AB		0·970	238·5	310·6	−29·5			107
		2565*d*	0·881	282·1	300·4	+12·0	6	43	473*p*
		2567	0·789	282·4	290·6	+11·5	0	7	405*c*
		2567*a*	0·726	283·3	284·9	+11·6	15	85	
		2573	0·801	241·8	287·5	−20·3	7	30	153*c*
		2575	0·489	304·5	264·0	+18·6	0	6	
		2575	0·433	308·3	259·8	+18·2	0	8	
		2574*a*	0·333	363·8	237·5	+22·2	7	16	
		2576	0·578	128·1	210·4	−18·3	5	17	
		2576	0·603	127·7	208·7	−19·1	0	3	
		2576	0·631	128·0	207·0	−20·4	6	26	
		2577	0·993	73·2	155·4	+17·0	0	17	120*c*
June 28		Centre			(238·9)	(+2·9)	(46)	(258)	(1258)
180·246	CL,AB	2565*d*	0·947	282·3	299·7	+12·5	7	47	970*c*
		2567*a*	0·834	281·5	286·8	+11·2	4	14	
M.		2567	0·836	283·1	284·8	+12·5	0	7	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2574, June 25–30. Two small spots, *a* and *b*, on June 25. Only *a* remains by June 26.
Group 2575, June 27–29. Three very small spots on June 27, two on June 28, one on June 29.
Group 2576, June 28–July 4. A number of small spots, which on June 28 form an elliptical ring. Only one spot remains by June 30. Fresh spots have appeared by July 1, but have all disappeared but one, *a*, by July 3.
Group 2577, June 28–July 1. An irregular group of very small spots not seen on June 30.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
180d·246	CL,AB	2573	0·886	245·2	287·3	−20·2	7	34	369*sf*
		2575	0·563	299·1	259·6	+18·3	0	6	
M.		2574*a*	0·358	337·0	237·1	+22·0	0	5	
		2576	0·464	141·6	210·9	−18·5	3	20	
		2576	0·491	140·7	209·3	−19·5	1	14	
		2576	0·531	139·1	206·7	−20·9	5	31	
		2576	0·517	136·9	206·6	−19·5	0	20	
		2577	0·933	73·6	159·9	+16·3	0	21	446*c*
		2577	0·953	73·4	156·2	+16·7	0	25	
			0·855	51·1	175·2	+34·1			251
			0·898	59·6	167·0	+28·4			295
June 29		Centre			(228·5)	(+2·9)	(27)	(244)	(2331)
181·415	HA,AB		0·951	282·4	285·1	+12·8			1327
			0·876	243·4	270·2	−21·4			970
		2574*a*	0·491	311·3	236·4	+21·7	0	2	
		2576	0·374	176·4	211·7	−18·7	0	27	
		2578	0·933	77·1	144·3	+13·2	0	29	587*c*
		2578	0·967	77·7	137·8	+12·7	0	7	
			0·849	71·6	155·8	+17·2			269
June 30		Centre			(213·1)	(+3·1)	(0)	(65)	(3153)
182·488	M,JG		0·967	284·3	274·2	+14·6			204
			0·934	247·1	265·0	−20·0			762
			0·921	236·6	260·1	−28·9			199
			0·856	293·7	256·3	+21·8			337
			0·866	228·3	249·3	−33·1			105
		2579	0·773	302·0	245·8	+26·4	3	18	207*c*
		2579	0·748	307·5	241·6	+29·3	3	10	
		2576	0·464	206·3	211·6	−21·3	0	8	248*c*
		2576*a*	0·431	206·5	210·6	−19·5	5	17	
		2576	0·431	201·1	208·4	−20·5	4	12	
		2577	0·736	71·1	152·7	+16·0	0	8	125*c*
		2578	0·792	74·6	147·2	+14·1	3	17	
		2578	0·815	76·0	144·8	+13·2	0	6	
		2578	0·827	75·9	143·5	+13·5	8	36	542*c*
		2578	0·853	71·6	141·2	+17·3	0	8	
		2578	0·880	77·7	136·5	+12·4	0	4	
			0·803	109·1	147·9	−13·3			69
			0·959	74·9	125·4	+15·4			460
July 1		Centre			(198·9)	(+3·2)	(26)	(144)	(3258)
1892.				°	°	°			
183d·416	CL,JG		0·967	248·0	259·3	−20·2			541
			0·961	236·1	255·2	−31·2			567
			0·890	298·8	247·4	+26·9			454
			0·814	239·3	235·6	−22·3			489
		2576*a*	0·556	227·1	212·0	−19·2	6	21	
		2576	0·526	220·7	208·0	−20·4	0	19	
		2578	0·628	71·7	148·8	+14·0	8	23	
		2578	0·652	71·8	147·0	+14·3	0	9	
		2578	0·681	70·9	144·9	+15·3	3	15	418*c*
		2578	0·679	72·6	144·8	+14·1	0	4	
		2578	0·699	73·7	143·1	+13·7	0	20	
		2578	0·760	76·7	137·6	+12·2	0	5	
			0·838	45·4	137·4	+38·2			270
			0·874	76·3	126·0	+13·5			265
			0·916	70·3	120·8	+19·3			276
July 2		Centre			(186·5)	(+3·3)	(17)	(116)	(3280)
184·496	CL,JG		0·915	296·4	237·2	+25·4			326
			0·894	246·4	232·3	−19·3			328
			0·926	229·8	231·0	−35·0			76
			0·885	244·9	230·8	−20·2			401
			0·848	231·2	221·7	−29·8			154
		2576*a*	0·720	239·2	213·0	−19·0	5	25	335*s*
		2578	0·415	63·0	150·0	+14·0	6	29	
		2578	0·436	63·8	148·6	+14·1	2	17	
		2578	0·511	64·6	143·8	+15·6	2	17	
		2580*a*	0·968	115·4	100·0	−23·5	62	335	631*c*
			0·878	105·9	112·8	−12·2			263
			0·979	80·5	93·9	+10·0			368
July 3		Centre			(172·3)	(+3·4)	(77)	(423)	(2882)
185·472	CL,AB		0·943	245·3	226·5	−21·8			509
			0·854	254·0	216·1	−11·7			348
			0·619	9·8	151·4	+40·9			230
		2576*a*	0·848	244·5	213·4	−19·3	6	20	419*sf*
		2578	0·240	37·5	150·8	+14·4	8	29	
		2578	0·270	47·5	147·6	+13·9	4	18	
		2578	0·339	51·7	143·5	+15·4	0	8	
		2580*a*	0·897	118·3	100·2	−23·4	61	384	674*c*
		2580	0·917	116·7	97·0	−22·7	0	12	
		2580	0·948	116·6	91·7	−23·8	25	130	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2578, June 30–July 11. A straggling group of small spots closely following Group 2577. The group has greatly increased in size by July 7, and forms a considerable stream, of which the largest spot, *a*, is the leader.
Group 2579, July 1. Two small spots.
Group 2580, July 3–14. A large regular spot, *a*, followed by a stream of small spots. *a* has become a composite spot by July 6, its nucleus being broken up by bridges. The following spots gradually diminish on the succeeding days. *a* remains alone and is a regular spot on July 12 and the succeeding days. It is visible as a deep indentation on the West limb on July 15.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
185d·472	CL, AB	2581*a*	0·955	78·8	86·6	+11·7	49	420	
		2581*b*	0·978	81·2	81·3	+ 9·3	25	286	1009*c*
		2581*c*	0·993	79·3	75·9	+11·0	43	639	
July 4		Centre			(159·4)	(+3·5)	(221)	(1946)	(3189)
186·484	CL, JG		0·906	243·3	206·8	−22·3			397
		2578	0·222	331·4	152·3	+14·8	0	13	
		2578	0·200	337·3	150·5	+14·2	0	10	
		2578	0·188	345·6	148·8	+14·1	0	37	
		2578	0·200	357·0	145·6	+15·1	0	9	
		2578	0·197	365·9	144·8	+14·9	0	12	
		2578	0·201	32·2	139·7	+13·4	0	8	
		2580*n*	0·797	123·3	99·6	−23·4	58	360	
		2580	0·828	121·2	95·8	−23·1	7	44	1308*c*
		2580	0·860	118·8	91·6	−22·3	0	7	
		2580	0·877	120·9	90·3	−24·7	12	110	
		2581*a*	0·855	77·7	87·4	+12·4	91	546	
		2581	0·890	84·9	83·1	+ 6·2	0	15	
		2581*b*	0·895	80·9	82·5	+ 9·7	27	361	1850*c*
		2581*c*	0·943	79·5	75·3	+11·1	66	693	
			0·888	111·9	86·4	−17·5			479
July 5		Centre			(146·0)	(+3·6)	(261)	(2225)	(4034)
187·451	HA, JG	2578	0·394	300·4	153·6	+14·9	0	10	
		2578	0·367	300·9	152·0	+14·3	3	13	
		2578	0·353	302·1	151·0	+14·2	0	10	
		2578	0·335	305·2	149·5	+14·7	0	17	
		2578	0·312	308·6	147·6	+14·7	2	18	
		2580*a*	0·675	130·7	99·5	−23·0	72	429	
		2580	0·710	127·8	95·8	−22·8	10	38	
		2580	0·750	126·1	91·9	−23·4	16	142	310*c*
		2580	0·784	127·3	89·5	−25·7	0	33	
		2581	0·679	79·6	91·1	+ 9·8	0	10	
		2581*a*	0·707	76·2	89·1	+12·4	80	534	
		2581	0·762	83·1	84·1	+ 7·6	0	14	
		2581*b*	0·766	80·0	83·8	+10·0	55	389	803*c*
		2581	0·795	83·7	81·0	+ 7·2	0	4	
		2581*c*	0·849	79·2	75·6	+11·1	92	869	
			0·970	106·9	59·6	−15·4			213
July 6		Centre			(133·1)	(+3·7)	(330)	(2530)	(1326)
1892.				°	°	°			
188d·656	M, AB		0·801	288·5	169·7	+17·0			158
		2578	0·613	288·8	153·0	+14·4	9	21	
		2578	0·594	290·0	152·4	+14·8	14	69	337*c*
		2578	0·549	291·4	149·1	+14·7	2	19	
		2578	0·521	293·9	146·8	+15·5	7	36	
		2580*a*	0·535	146·6	98·7	−22·8	88	511	
		2580	0·621	141·9	92·2	−25·7	0	4	
		2580	0·616	139·8	91·5	−24·6	0	3	
		2580	0·607	138·2	91·2	−23·4	21	120	269*c*
		2580	0·634	139·3	90·2	−25·3	0	8	
		2580	0·649	139·1	89·2	−25·9	0	11	
		2581	0·452	77·5	90·9	+ 9·0	0	2	
		2581*a*	0·481	71·6	89·6	+12·1	104	503	
		2581*b*	0·550	77·4	84·4	+10·0	77	660	
		2581	0·548	83·8	84·2	+ 6·6	0	27	
		2581	0·596	81·4	80·9	+ 8·2	0	10	990*c*
		2581	0·604	78·0	80·7	+10·3	2	27	
		2581*c*	0·675	77·4	75·3	+11·2	150	1158	
		2582	0·829	108·6	63·7	−13·1	5	12	454*f*
		2583*a*	0·993	122·5	36·0	−31·6	155	799	1387*p*
			0·842	84·2	60·0	+ 7·0			114
			0·853	74·0	59·2	+15·6			427
			0·975	76·1	41·6	−12·6			396
July 7		Centre			(117·3)	(+3·8)	(634)	(4000)	(4532)
189·458	JG, AB		0·806	290·1	159·4	+18·4			96
		2578*	0·914	280·6	172·8	+11·2	0	13	136*c*
		2578*	0·896	279·2	170·4	+10·0	0	8	
		2578*a*	0·744	286·3	154·1	+14·7	19	189	
		2578	0·696	286·6	150·0	+14·3	0	9	
		2578	0·693	289·0	149·5	+15·8	15	58	274*c*
		2578	0·655	289·8	146·4	+15·8	3	14	
		2578	0·572	287·5	140·6	+13·1	6	15	
		2580*a*	0·466	163·6	98·5	−22·6	65	468	143*c*
		2580	0·546	151·3	90·0	−24·8	17	76	67*c*
		2581*a*	0·319	62·7	89·9	+12·1	131	532	
		2581	0·328	73·4	88·2	+ 9·0	0	3	
		2581*b*	0·385	72·7	84·9	+10·2	84	684	808*c*
		2581	0·459	75·6	80·0	+10·0	0	45	
		2581*c*	0·531	75·1	75·3	+11·2	113	911	
		2582	0·715	112·6	64·2	−13·0	0	8	239*f*
		2582	0·746	111·9	61·5	−13·4	0	5	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2581, July 4–16. Three large spots *a, b, c.* Several small spots are seen round these spots on the succeeding days. *b* and *c* show signs of dividing on June 6, and have each separated into two distinct spots by June 9, and break up further on the succeeding days. *a* remains as a regular spot throughout its course.
Group 2582, July 7–13. A small irregular group. The spots form a short curved stream on July 12 and 13. It is not seen on July 10.
Group 2583, July 7–19. A large composite spot, *a,* with several small companions irregularly distributed. The nucleus of *a* is often crossed by bridges.
Group 2578*, July 8. Two small spots *s p* Group 2578.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
189d.458	JG,AB	2583*a*	0·969	124·1	36·5	−31·6	236	961	1235*p*
		2584*a*	0·977	63·7	28·7	+26·6	27	106	283*c*
			0·924	75·0	39·2	+15·3			646
July 8		Centre			(106·7)	(+3·9)	(716)	(4105)	(3927)
190·428	CL,M		0·940	255·5	162·1	−12·1			70
			0·897	301·6	155·5	+30·0			403
			0·786	313·5	138·1	+35·5			127
		2578*a*	0·879	284·5	155·2	+14·7	72	368	
		2578	0·827	285·7	149·2	+15·2	14	112	1159*c*
		2578	0·773	283·6	144·1	+13·0	0	21	
		2578	0·734	284·3	140·5	+13·2	6	35	
		2580*a*	0·457	189·3	98·4	−22·7	67	455	422*c*
		2580	0·482	173·8	90·5	−24·5	6	91	
		2581*a*	0·152	22·2	90·4	+12·1	108	561	
		2581	0·176	44·2	86·6	+11·2	52	253	
		2581	0·190	61·0	84·2	+ 9·2	55	353	
		2581	0·227	65·5	81·8	+ 9·3	11	68	
		2581	0·259	73·6	79·3	+ 8·1	3	20	
		2581	0·315	68·2	76·6	+10·5	59	397	
		2581	0·358	66·8	74·2	+11·9	51	298	
		2581	0·390	64·9	72·6	+13·2	7	40	
		2582	0·556	120·9	64·6	−13·1	0	4	
		2583*a*	0·912	127·5	35·8	−31·6	180	1099	1015*c*
		2584*a*	0·917	62·5	28·4	+26·8	18	100	498*c*
		2584	0·932	62·7	25·8	+26·9	0	27	
			0·818	158·1	68·0	−45·6			33
			0·802	131·6	50·5	−29·2			761
			0·818	75·1	39·3	+14·4			569
July 9		Centre			(93·8)	(+4·0)	(709)	(4302)	(5057)
191·448	CL,AB	2578*a*	0·974	283·9	157·7	+14·5	35	387	
		2578	0·955	283·5	153·3	+14·1	0	38	1389*c*
I.		2578	0·926	283·7	148·2	+14·2	36	190	
		2580*a*	0·532	211·7	97·9	−22·8	73	446	144*c*
		2580	0·505	212·0	96·9	−21·3	0	9	
		2581*a*	0·227	308·6	90·7	+12·2	128	594	
		2581	0·171	290·8	89·6	+ 7·5	0	6	
		2581	0·173	314·2	87·5	+11·0	39	162	
		2581	0·102	300·1	85·4	+ 7·0	0	29	
		2581	0·129	322·0	84·9	+ 9·9	46	267	
		2581	0·148	331·0	84·5	+11·6	5	33	
		2581	0·098	339·3	82·3	+ 9·3	8	81	
1892.				°	°	°			
191d.448	CL,AB	2581	0·078	5·7	79·9	+ 8·5	0	54	
		2581	0·122	26·0	77·2	+10·4	57	438	
I.		2581	0·160	35·8	74·9	+11·6	23	350	
		2581	0·201	40·0	72·7	+12·9	2	15	
		2583	0·800	134·2	38·5	−30·8	5	27	
		2583	0·811	131·0	36·0	−29·2	0	37	1283*c*
		2583*a*	0·843	132·9	33·6	−32·1	303	1000	
		2583	0·882	132·0	28·6	−33·6	0	10	
		2584*a*	0·826	59·8	27·2	+27·0	18	102	528*c*
			0·943	117·9	14·2	−24·5			746
July 10		Centre			(80·3)	(+4·1)	(778)	(4275)	(4090)
192·480	HA,AB	2578	0·985	283·9	147·2	+14·4	27	212	829*f*
		2580*a*	0·646	227·7	97·5	−22·9	57	350	
		2580	0·620	227·9	96·0	−20·8	0	17	
		2581*a*	0·374	289·3	87·6	+11·0	181	927	
		2581	0·367	284·2	87·6	+ 9·1	0	8	
		2581	0·361	294·3	86·2	+12·5	3	14	
		2581	0·329	293·2	84·5	+11·4	0	12	
		2581	0·261	289·4	80·9	+ 9·1	0	20	
		2581	0·263	296·9	80·4	+10·9	0	10	
		2581	0·202	305·5	76·2	+10·9	87	508	
		2581	0·198	323·0	73·6	+13·3	0	3	
		2581	0·166	318·8	73·0	+11·3	1	13	
		2582	0·311	175·7	65·2	−13·8	4	9	
		2582	0·307	168·7	63·1	−13·2	0	4	
		2583	0·684	145·8	40·2	−30·5	1	5	
		2583	0·690	143·4	38·4	−29·9	2	21	
		2583*a*	0·736	141·2	34·0	−31·3	177	895	431*c*
		2583	0·774	138·4	29·4	−32·0	2	9	
		2584*a*	0·699	54·7	26·9	+27·0	18	86	100*c*
			0·872	122·7	12·3	−25·7			556
			0·923	75·6	359·2	+14·9			621
July 11		Centre			(66·6)	(+4·2)	(560)	(3123)	(2537)
193·401	HA,JG		0·925	288·5	122·0	+18·7			220
		2580*a*	0·769	235·9	97·7	−22·4	63	367	664*c*
		2581*a*	0·569	284·0	88·5	+11·5	148	835	
		2581	0·572	289·9	88·0	+14·7	0	7	
		2581	0·552	286·4	87·1	+12·6	0	17	707*c*
		2581	0·511	285·3	84·5	+11·5	0	6	
		2581	0·484	282·1	83·0	+ 9·6	7	67	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2584, July 8–20. A regular spot, *a*. A small companion is seen near it on July 9.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
				°	°	°			
1892.									
193d·401	HA,JG	2581	0·467	280·1	82·0	+ 8·5	0	12	
		2581	0·435	284·3	79·6	+10·1	11	174	
		2581	0·391	288·1	76·6	+11·0	16	121	
		2581	0·362	279·4	75·4	+ 7·4	0	3	707c
		2581	0·373	291·2	75·2	+11·8	20	250	
		2581	0·255	287·5	68·6	+ 8·6	0	2	
		2582	0·360	211·9	65·6	−13·6	3	15	
		2582	0·343	206·2	63·3	−13·7	0	3	
		2582	0·355	202·0	62·3	−14·9	0	8	
		2583*a*	0·655	152·5	33·7	−31·3	203	694	
		2583	0·717	155·3	32·3	−36·5	0	5	
		2583	0·691	150·3	30·4	−32·8	16	51	490c
		2583	0·676	147·9	29·7	−30·9	0	16	
		2584*a*	0·578	45·8	26·7	+27·5	18	101	206c
		2585	0·724	125·9	15·4	−21·7	0	9	360*sf*
			0·947	118·4	347·7	−25·1			359
			0·820	77·9	359·5	+12·4			320
			0·880	67·0	353·6	+22·2			264
			0·959	75·3	340·5	+15·3			485
			0·964	74·6	339·4	+16·0			528
			0·981	113·2	338·4	−21·8			159
July 12		Centre			(54·4)	(+4·3)	(505)	(2763)	(4762)
194·333	HA,M		0·931	244·0	106·6	−22·2			68
			0·855	278·8	100·9	+ 9·8			359
I.		2580*a*	0·873	240·6	97·5	−22·8	83	407	1116*f*
		2581*a*	0·752	281·4	90·7	+11·5	226	851	
		2581	0·705	282·8	86·6	+12·1	0	3	
		2581	0·695	279·3	86·0	+ 9·6	11	55	
		2581	0·655	279·3	82·9	+ 9·4	4	66	1386c
		2581	0·616	281·7	79·8	+10·7	12	226	
		2581	0·561	283·7	75·7	+11·3	59	296	
		2581	0·522	284·1	73·0	+11·1	4	21	
		2582	0·482	226·1	63·1	−15·4	1	6	
		2583*a*	0·601	166·8	32·9	−31·3	317	716	
		2583	0·660	165·3	31·9	−35·2	0	3	
		2583	0·639	163·3	29·4	−33·3	15	75	
		2583	0·600	160·2	28·6	−30·0	0	6	
		2583	0·634	159·3	26·8	−32·0	0	3	
		2584*a*	0·470	31·5	26·0	+27·8	29	107	
			0·872	127·3	349·7	−29·2			322
			0·799	78·9	349·2	+11·5			299

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
				°	°	°			
1892.									
194d·333	HA,M		0·820	65·6	348·4	+22·4			267
			0·915	71·1	336·1	+19·0			759
I.			0·939	114·7	335·9	−21·4			576
July 13		Centre			(42·1)	(+4·4)	(761)	(2841)	(5152)
195·210	CL,JG	2580*a*	0·941	243·9	96·6	−22·7	40	322	946*sf*
		2581*a*	0·863	280·7	90·2	+11·4	92	629	
M.		2581	0·820	278·8	85·6	+ 9·8	0	12	
		2581	0·782	278·8	81·9	+ 9·7	6	35	603c
		2581	0·756	280·7	79·5	+11·1	12	175	
		2581	0·742	279·4	78·3	+10·0	0	24	
		2581	0·706	281·5	75·2	+11·3	15	222	
		2581	0·679	282·1	73·0	+11·6	0	13	
		2583*a*	0·584	183·1	32·6	−31·0	106	846	
		2583	0·617	177·7	28·3	−33·4	8	49	304c
		2583	0·600	175·4	27·3	−32·1	0	16	
		2584*a*	0·399	10·7	25·7	+27·5	20	104	
			0·742	68·9	343·8	+18·6			253
			0·889	118·7	332·8	−22·9			555
July 14		Centre			(30·5)	(+4·5)	(299)	(2447)	(2661)
196·262	HA,JG		0·960	244·4	86·5	−23·0			704
			0·811	247·0	67·2	−15·6			261
I.			0·727	220·6	49·4	−29·6			568
		2581*a*	0·964	279·8	91·5	+10·7	305	909	
		2581	0·921	279·0	83·9	+10·1	16	167	1808c
		2581	0·884	279·7	78·8	+10·7	11	128	
		2581	0·859	279·8	75·9	+10·7	14	91	
		2583*a*	0·631	201·9	32·5	−31·3	175	789	818c
		2583	0·629	194·9	27·7	−32·8	9	46	
		2584*a*	0·424	340·4	25·8	+28·1	18	97	140c
		2586*a*	0·973	101·3	301·2	− 9·9	41	178	517*f*
			0·732	142·3	345·1	−31·3			104
			0·695	66·4	334·3	+19·5			224
			0·805	122·9	329·6	−22·8			374
			0·923	80·6	309·1	+10·4			302
July 15		Centre			(16·6)	(+4·6)	(589)	(2405)	(5820)
197·240	CL,AB		0·870	249·3	61·5	−16·6			572
I.			0·831	229·1	49·8	−29·7			923

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2585, July 12. A small spot.
Group 2586, July 15–26. A large regular spot, *a*. A small spot, *b*, follows it on July 16, but is not seen after July 23. A second small companion is seen on July 22.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
197d·240	CL, AB	2581	0·988	279·6	85·1	+10·2	29	158	
		2581	0·965	279·4	78·7	+10·3	28	210	1184c
I.		2581	0·955	281·1	76·7	+12·0	0	25	
		2583	0·746	218·1	36·3	−31·9	0	21	
		2583	0·703	219·5	34·2	−28·8	2	10	
		2583a	0·708	215·0	31·8	−31·2	234	626	
		2583	0·679	217·2	31·4	−28·5	0	9	
		2583	0·733	211·6	31·2	−34·3	0	8	623c
		2583	0·688	212·2	29·3	−32·6	0	14	
		2583	0·703	209·1	27·7	−33·5	7	23	
		2583	0·687	210·0	27·4	−32·1	0	17	
		2584a	0·527	320·9	25·7	+28·4	18	108	
		2586a	0·893	103·2	302·0	− 9·6	58	290	660c
		2586b	0·924	101·1	297·4	− 8·4	0	27	
			0·819	81·1	308·6	+10·0			398
			0·955	125·6	297·6	−31·9			175
			0·947	76·8	292·0	+14·0			353
July 16		Centre			(3·6)	(+4·7)	(376)	(1546)	(4888)
198·241	HA, AB		0·951	282·6	62·8	+13·5			183
			0·938	252·8	57·8	−14·3			109
I.			0·793	283·8	42·7	+13·8			187
		2583	0·803	228·1	33·3	−28·8	0	13	
		2583a	0·804	224·4	31·5	−31·4	231	691	1659c
		2584a	0·661	309·6	25·8	+28·8	18	93	359c
		2587a	0·584	286·8	25·4	+13·7	10	23	
		2587	0·547	286·5	22·8	+12·9	0	4	110c
		2587b	0·540	290·4	21·9	+15·0	3	31	
		2588	0·425	147·0	336·5	−16·1	5	37	
		2588	0·449	143·6	334·3	−16·5	2	26	
		2588	0·457	139·1	332·4	−15·6	8	57	
		2589	0·576	66·3	317·0	+17·4	9	54	
		2589	0·606	66·5	314·8	+17·9	0	11	
		2586a	0·770	106·8	302·2	− 9·6	44	257	591c
		2586b	0·799	104·0	299·0	− 8·1	12	65	
			0·866	76·3	290·4	+14·2			380
July 17		Centre			(350·4)	(+4·8)	(342)	(1362)	(3578)
199·414	AB, JG		0·914	285·2	41·1	+15·8			257
		2583a	0·901	232·2	30·7	−30·8	140	660	1049c
		2587a	0·790	283·3	27·0	+13·5	24	94	
		2587	0·764	285·2	24·4	+14·7	0	8	258c
		2587b	0·722	286·9	20·5	+15·5	24	84	
1892.				°	°	°			
199d·414	AB, JG	2584a	0·799	303·7	24·5	+29·5	13	48	138c
		2588a	0·356	188·6	338·1	−15·6	4	39	72c
		2588	0·355	183·4	336·2	−15·8	13	90	
		2588	0·365	169·7	331·0	−16·0	29	81	73c
		2590	0·290	16·6	329·8	+21·0	0	4	
		2589	0·377	54·0	316·3	+17·4	12	85	
		2589	0·405	55·6	314·4	+17·8	0	10	
		2589	0·417	59·7	312·9	+16·7	0	8	
		2589	0·437	56·2	312·5	+18·5	2	8	
		2586a	0·583	113·9	302·3	− 9·4	36	225	197c
		2586b	0·621	110·3	299·0	− 8·5	0	47	
			0·944	119·0	269·2	−25·2			471
			0·966	67·5	259·3	+23·0			160
July 18		Centre			(334·9)	(+4·9)	(297)	(1491)	(2675)
200·419	CL, JG	2583a	0·963	236·7	29·9	−30·1	41	502	469c
		2587a	0·917	283·3	28·4	+14·2	0	76	224c
		2587b	0·851	285·9	19·8	+16·1	14	102	
		2587	0·792	289·9	13·3	+18·7	0	9	
		2584a	0·899	300·2	24·3	+29·2	0	41	
		2588a	0·440	218·3	338·0	−15·3	7	41	
		2588	0·428	211·2	334·9	−16·5	0	4	
		2588	0·394	203·8	331·1	−16·1	0	21	
		2589	0·224	17·1	317·7	+17·3	0	59	
		2589	0·212	24·0	316·5	+16·1	0	3	
		2589	0·241	25·5	315·4	+17·5	0	9	
		2589	0·234	33·1	314·0	+16·2	0	4	
		2586a	0·412	126·6	302·1	− 9·5	37	220	152c
		2586b	0·434	120·9	299·6	− 8·2	0	23	
			0·874	124·4	268·0	−26·6			297
July 19		Centre			(321·6)	(+5·0)	(99)	(1114)	(1142)
201·636	HA, AB		0·927	242·3	8·6	−23·3			209
			0·839	280·1	2·7	+11·2			204
		2587a	0·993	283·7	29·6	+14·2	0	77	291c
		2587b	0·958	285·9	19·4	+16·7	11	64	
		2584a	0·978	299·4	24·3	+29·8	12	60	240f
		2588a	0·637	238·8	339·7	−15·1	9	24	
		2588	0·565	231·5	332·8	−16·0	0	14	
		2588	0·550	228·8	331·0	−16·6	9	22	
		2589	0·287	317·2	317·2	+17·1	7	31	
		2589	0·282	330·6	313·9	+19·2	0	13	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2587, July 17–20. Two spots, *a* and *b*. Both are double on July 18, but the components are measured together. Small companions are seen on July 17, 18 and 19.
Group 2588, July 17–22. A number of small spots in a short stream on July 17 and 18. The stream is curved like a sickle on July 19. The following spots decrease in size, and only the leading spot, *a*, remains by July 21.
Group 2589, July 17–23. Several small spots in an irregular group on July 17. It consists of two streams at right angles to each other on July 21. Of these, only the stream parallel to the equator is seen on the succeeding days.
Group 2590, July 18. A very small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
201d·636	HA,AB	2589	0·244	330·4	312·7	+17·2	2	16	
		2586*a*	0·258	165·6	301·8	− 9·3	47	237	
		2586*b*	0·258	156·2	299·5	− 8·5	9	54	
			0·746	133·2	268·2	−26·6			269
			0·795	119·9	258·5	−19·9			331
			0·817	60·4	252·9	+26·9			234
			0·924	125·8	245·5	−30·2			218
July 20		Centre			(305·5)	(+5·1)	(106)	(612)	(1996)
202·446	CL,AB		0·914	279·4	1·1	+10·7			348
			0·761	282·7	344·2	+12·9			113
			0·786	291·1	345·7	+19·6			391
		2588*a*	0·759	245·1	340·1	−15·0	6	24	369*c*
		2591	0·649	226·6	325·2	−22·0	0	32	
		~~2589~~	~~0·549~~	~~309·1~~	~~322·7~~	~~+24·7~~	~~0~~	~~3~~	
		~~2589~~	~~0·513~~	~~311·1~~	~~319·8~~	~~+24·3~~	~~0~~	~~47~~	
		~~2589~~	~~0·469~~	~~306·0~~	~~318·6~~	~~+20·6~~	~~0~~	~~17~~	357*c*
		2589	0·451	300·0	318·9	+17·6	0	18	
		2589	0·420	299·9	317·1	+16·8	0	21	
		2592	0·263	294·9	308·8	+11·3	0	8	
		2586*a*	0·281	206·6	302·1	− 9·4	24	218	124*c*
		2586*b*	0·246	200·0	299·7	− 8·2	0	20	
		2593	0·487	79·6	265·9	+ 9·5	0	12	
		2594*a*	0·968	117·0	223·6	−24·5	0	21	310*p*
			0·819	58·4	242·5	+28·5		~~1~~	247
July 21		Centre			(294·8)	(+5·1)	(30)	(~~442~~)	(2259)
								374	
203·422	M,JG		0·889	288·6	344·5	+18·9			416
			0·837	238·7	332·3	−22·5			422
		2588*a*	0 882	249·9	340·6	−15·0	0	9	444*s*
		2589	0·595	290·6	317·1	+16·3	0	13	
		2589	0·561	293·3	314·3	+17·2	0	33	
		2586*a*	0·423	233·8	302·0	− 9·6	39	209	
		2586*b*	0·382	233·5	299·8	− 8·1	0	6	
		2586	0·372	228·7	298·2	− 9·1	0	2	
		2595*a*	0·709	119·0	241·8	−16·1	0	7	
		2594*a*	0·890	120·9	225·0	−24·3	4	16	476*c*
		2594	0·918	120·2	220·9	−25·0	0	10	
			0·963	110·5	210·4	−18·1			361
July 22		Centre			(281·8)	(+5·2)	(43)	(305)	(2119)
1892.				°	°	°			
204d·495	CL,AB		0·929	288·7	336·3	+19·3			351
			0·939	246·9	333·9	−19·5			1076
		2589	0·761	287·8	316·7	+16·9	0	7	142*c*
		2589	0·734	288·9	314·2	+17·4	0	12	
		2586*a*	0·609	246·9	302·2	− 9·4	32	209	95*c*
		2586*b*	0·583	248·2	300·7	− 8·0	0	3	
		2596	0·496	205·9	281·1	−21·2	0	6	
		2596	0·492	202·3	279·2	−21·8	0	2	
		2596	0·478	201·3	278·4	−21·2	0	14	
		2595*a*	0·532	131·2	243·2	−15·7	6	20	
		2595	0·549	127·3	241·0	−14·7	0	11	
		2595	0·578	129·6	240·1	−16·9	0	14	
		2594*a*	0·773	127·4	225·6	−24·0	2	18	302*s*
			0·892	123·0	211·4	−26·2			414
			0·950	120·8	201·5	−27·1			338
			0·924	76·1	199·8	+14·9			346
July 23		Centre			(267·7)	(+5·3)	(40)	(316)	(3064)
205·164	CL,JG		0·942	289·3	329·7	+20·0			92
			0·955	247·5	328·1	−19·6			510
I.			0·862	284·0	318·5	+14·8			374
		2586*a*	0·718	251·1	302·2	− 9·5	56	192	287*c*
		2596	0·567	220·5	281·9	−20·5	10	28	
		2596	0·536	220·1	280·1	−19·1	0	9	199*c*
		2596	0·549	214·0	278·0	−21·8	7	23	
		2596	0·431	215·6	273·8	−15·2	0	12	
		2595*a*	0·434	143·4	243·3	−15·1	17	38	
		2595	0·421	140·4	242·8	−13·7	0	3	
		2595	0·465	140·1	240·8	−15·7	0	4	
		2595	0·474	139·7	240·3	−16·0	0	10	
		2594*a*	0·693	132·6	225·2	−23·5	8	18	
		2594	0·702	131·3	223·9	−23·1	4	21	216*c*
		2594	0·720	130·1	222·1	−23·3	0	17	
			0·866	117·0	203·7	−20·1			458
July 24		Centre			(258·8)	(+5·4)	(102)	(375)	(2136)
206·219	JG,AB		0·945	286·8	316·4	+17·7			263
			0·937	280·5	314·9	+11·8			57
M.		2586*a*	0·855	256·0	301·8	− 8·9	20	157	169*c*
		2596	0·707	235·0	282·7	−19·5	9	31	
		2596	0·672	229·0	277·8	−21·5	8	62	
		2595*a*	0·354	179·3	244·6	−15·1	0	12	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2591, July 21. A small spot.
Group 2593, July 21. A small spot.
Group 2594, July 21–27. A small irregular group forming a straight stream on July 24, of which *a* is the leader.
Group 2595, July 22–26. A small spot, *a*, followed on July 23 and the succeeding days by a short stream of small spots.
Group 2596, July 23–27. A number of small spots in a straggling group. It consists of two small clusters, each of which is measured as one spot on July 25. The following cluster has disappeared by July 26.

Group 2592, July 21. Two very small spots measured together.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
206d·219	JG,AB	2595	0·365	169·9	241·1	−15·5	0	3	
		2594*a*	0·568	147·7	225·7	−23·4	4	19	
M.		2597	0·967	115·7	173·8	−23·1	0	19	287*c*
		2598*a*	0·926	78·7	176·7	+12·5	29	202	
		2598	0·961	75·2	170·3	+15·7	0	97	
		2598	0·991	78·9	162·0	+11·7	0	30	962*c*
		2599*a*	0·991	76·2	161·7	+14·4	39	283	
July 25		Centre			(244·9)	(+5·5)	(109)	(915)	(1738)
207·541	HA,JG		0·752	237·8	267·4	−23·5			261
		2586*a*	0·973	259·1	302·6	− 9·2	24	187	294*f*
		2596	0·877	243·5	283·9	−20·1	12	91	316*f*
		2595*a*	0·467	221·4	246·0	−15·2	1	10	
		2594*a*	0·486	178·2	226·5	−23·5	0	26	
		2597	0·857	120·5	174·5	−22·5	0	15	56*f*
		2598*a*	0·780	77·9	176·2	+12·8	48	346	
		2598	0·819	78·0	172·3	+12·9	1	25	
		2598	0·854	75·1	168·8	+15·6	34	205	950*c*
		2599*a*	0·918	76·7	160·4	+14·4	83	490	
		2600*a*	0·955	108·0	157·3	−15·3	37	212	585*c*
		2601*a*	0·960	80·5	153·2	+10·7	48	237	
		2602	0·992	79·9	144·0	+10·7	0	80	950*c*
July 26		Centre			(227·4)	(+5·5)	(288)	(1924)	(~~7~~412) 3
208·443	HA,AB		0·801	234·1	260·5	−24·0			244
		2596	0·955	246·6	284·4	−20·4	3	38	478*f*
		2603	0·433	305·4	237·3	+19·7	0	6	
		2594*a*	0·517	200·3	226·6	−23·4	0	6	
		2604	0·475	180·6	215·7	−22·7	0	16	
		2605	0·448	160·7	206·4	−19·4	0	6	
		2597	0·739	127·0	176·0	−22·0	0	5	
		2598*a*	0·637	76·7	176·1	+12·8	58	348	
		2598	0·686	76·7	172·3	+13·2	1	7	
		2598	0·739	73·1	168·2	+16·2	37	189	1340*c*
		2598	0·752	74·8	166·8	+15·1	0	3	
		2599*a*	0·819	76·2	160·4	+14·5	123	681	
		2600	0·839	107·9	161·0	−11·7	0	7	
		2600*a*	0·876	111·1	157·6	−15·4	55	276	788*f*
		2601*a*	0·882	80·9	153·2	+10·7	42	220	
		2606	0·913	84·1	149·3	+ 7·6	0	24	
		2606	0·951	84·7	143·1	+ 6·8	0	7	
		2602	0·929	81·0	146·8	+10·4	0	14	
1892.				°	°	°			
208d·443	HA,AB	2602*a*	0·948	79·8	143·5	+11·4	34	238	
		2602	0·972	79·9	138·5	+11·1	0	70	
July 27		Centre			(215·4)	(+5·6)	(353)	(2161)	(2850)
209·462	CL,JG		0·928	242·8	265·2	−22·6			525
		2607	0·799	239·9	249·1	−19·8	0	7	161*c*
		2604	0·518	205·0	215·6	−22·3	1	5	
		2605	0·438	187·3	205·4	−20·0	3	13	
		2605	0·420	187·2	205·2	−18·8	0	3	
		2598*a*	0·446	71·8	176·3	+13·1	47	365	
		2598	0·509	69·4	172·5	+15·3	0	4	207*c*
		2598	0·506	73·1	172·3	+13·4	0	12	
		2598	0·533	72·5	170·5	+14·1	0	4	
		2598	0·544	70·7	170·0	+15·1	1	7	195*c*
		2598	0·578	69·9	167·7	+16·1	20	183	
		2599*a*	0·663	73·9	160·9	+14·9	82	573	330*c*
		2608	0·688	61·4	161·0	+23·5	0	10	
		2608	0·720	59·2	158·8	+25·8	0	10	103*c*
		2600	0·697	113·4	161·4	−11·8	0	3	
		2600*a*	0·752	116·6	157·9	−15·6	23	183	275*c*
		2600	0·782	112·5	154·2	−13·6	0	11	
		2601*a*	0·747	80·9	153·6	+10·5	51	229	266*c*
		2606	0·775	84·9	151·1	+ 7·5	0	17	
		2606	0·853	86·3	143·3	+ 6·1	0	3	
		2602*a*	0·840	79·5	144·6	+11·9	29	182	766*c*
		2602	0·894	80·3	138·3	+11·2	20	93	
July 28		Centre			(202·0)	(+5·7)	(277)	(1917)	(2828)
210·397	JG,AB		0·919	243·0	251·4	−22·0			581
		2604	0·643	222·2	217·5	−23·2	0	8	
		2604	0·630	219·4	215·4	−23·8	0	7	
		2605	0·477	215·1	206·2	−17·3	0	5	
		2605	0·477	211·4	204·7	−18·3	3	18	
		2609	0·143	272·5	197·8	+ 6·1	0	24	
		2609	0·094	265·2	195·0	+ 5·3	4	24	
		2610	0·253	348·8	192·6	+20·1	0	6	
		2597	0·533	152·2	174·1	−22·4	0	7	
		2597	0·580	147·4	169·7	−23·7	1	10	192*c*
		2598*a*	0·260	61·0	176·2	+12·9	58	446	
		2598	0·326	60·6	172·6	+14·8	0	13	311*c*
		2598	0·401	62·2	168·0	+16·1	22	121	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2597, July 25–August 5. A small faint spot not seen on July 28. A few very small spots in a short stream on July 29. The group has greatly increased in size by August 2.
Group 2598, July 25–August 5. A large regular spot, *a*, followed by a stream of smaller spots which gradually diminish.
Group 2599, July 25–August 6. A large spot, *a*, with elongated nucleus. Small companions are seen near it on July 29 and 31. *a* has divided into two spots, *b* and *c*, on the day before its disappearance at the west limb.
Group 2600, July 26–August 6. A regular spot, *a*, accompanied occasionally by one or two small companions.
Group 2601, July 26–August 5. A regular spot, *a*, accompanied occasionally by several small companions. There is a bridge across the nucleus on July 29, which during the two succeeding days shows signs of dividing into two spots. The divisions in the nucleus have disappeared by August 2.
Group 2602, July 26–August 7. A regular spot, *a*, followed by a stream of small spots. These have all disappeared by August 5.
Group 2603, July 27. A very small spot.
Group 2604, July 27–30. A small irregular spot on July 27 and 28. Two spots are seen on July 29 and 30.
Group 2605, July 27–31. An irregular group of a few very small spots forming a stream which changes in shape from day to day.
Group 2606, July 27–30. An irregular group of a few very small spots *s* of Group 2601.
Group 2607, July 28. A very small spot.
Group 2608, July 28–August 4. A straggling group of very small spots *n* of Groups 2598 and 2599. Only the first and last spots remain by August 3, and the first is left alone by August 4.
Group 2609. July 29–August 1. An irregular group of small faint spots.
Group 2610, July 29. A very small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
210d·397	JG,AB	2599	0·451	70·5	163·7	+13·8	0	6	169c
		2599	0·536	75·1	157·6	+12·8	0	5	
		2599a	0·499	69·7	160·7	+15·1	97	558	
		2608	0·531	53·9	161·9	+23·3	0	5	
		2600a	0·619	124·4	157·7	−15·5	53	201	169c
		2601a	0·592	79·5	153·4	+10·9	39	230	827c
		2601	0·631	75·8	150·8	+13·4	0	19	
		2601	0·665	74·5	148·3	+14·6	0	12	
		2606	0·619	84·8	151·3	+ 7·8	0	14	
		2602a	0·715	79·6	143·9	+11·5	26	163	
		2602	0·752	81·7	140·7	+10·1	0	2	
		2602	0·784	79·9	137·8	+11·5	8	55	
			0·742	116·3	146·3	−15·0			468
			0·870	53·2	132·0	+34·5			88
July 29		Centre			(189·6)	(+5·8)	(311)	(1959)	(2805)
211·346	HA,JG		0·897	294·7	240·5	+24·7			448
			0·903	246·8	237·6	−18·0			563
I.		2604	0·775	232·0	218·9	−24·1	0	6	322p
		2604	0·743	229·1	215·0	−24·5	0	9	
		2605	0·678	233·1	211·9	−19·2	3	29	394c
		2605	0·653	232·6	210·0	−18·4	2	22	
		2605	0·610	225·3	204·4	−20·2	0	3	
		2605	0·593	226·8	204·0	−18·7	0	6	
		2609	0·378	271·8	199·2	+ 6·1	0	5	
		2609	0·312	268·3	195·1	+ 4·6	3	14	
		2597	0·509	166·2	169·4	−23·8	7	20	
		2598a	0·124	6·4	176·2	+12·8	70	323	
		2598	0·163	22·2	173·4	+14·4	2	20	
		2598	0·186	27·9	171·8	+15·2	0	9	
		2598	0·194	33·7	170·6	+15·0	0	5	
		2598	0·210	36·9	169·5	+15·4	0	15	
		2598	0·240	39·7	167·9	+16·3	12	66	
		2598	0·281	40·2	166·1	+18·1	0	6	
		2598	0·264	55·1	164·1	+14·4	0	10	
		2608	0·377	36·7	162·9	+23·2	0	6	
		2608	0·419	36·8	161·0	+25·1	4	9	
		2608	0·448	39·9	158·5	+25·5	9	28	
		2599a	0·315	57·5	161·1	+15·3	118	505	
		2600a	0·484	138·3	157·6	−15·6	55	218	
		2601a	0·407	76·2	153·4	+10·8	38	226	
		2601	0·423	70·7	152·9	+13·4	5	17	
		2601	0·466	67·2	150·6	+15·6	0	4	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
211d·346	HA,JG	2601	0·482	71·2	149·1	+14·1	4	38	
		2606	0·431	84·9	151·5	+ 7·4	0	5	
I.		2606	0·491	85·6	147·6	+ 7·2	0	4	
		2602a	0·552	77·4	143·8	+11·7	32	169	
		2602	0·630	77·9	138·1	+12·1	8	42	
		2602	0·577	78·4	141·9	+11·4	0	3	
		2611a	0·978	83·2	98·7	+ 7·9	0	160	393p
		2611b	0·988	80·5	95·3	+10·3	0	157	
July 30		Centre			(177·0)	(+5·8)	(372)	(2459)	(2120)
212·212	CL,AB		0·948	249·1	233·7	−17·7			468
			0·827	304·6	218·5	+31·6			212
I.			0·849	236·8	216·4	−24·0			629
		2605	0·712	234·7	203·6	−19·6	0	6	230c
		2609	0·495	270·2	195·3	+ 5·2	0	4	
		2597	0·499	197·8	175·1	−22·5	3	14	
		2597	0·497	193·4	172·8	−23·0	0	3	
		2597	0·498	186·9	169·3	−23·6	7	14	
		2598	0·258	306·8	177·9	+14·6	0	8	
		2598a	0·215	303·7	176·1	+12·6	92	383	
		2598	0·173	333·5	170·2	+14·7	0	3	
		2598	0·181	342·7	168·8	+15·8	0	12	
		2598	0·192	351·5	167·3	+16·8	7	23	
		2598	0·215	356·6	166·4	+18·2	0	4	
		2608	0·295	8·0	163·1	+22·8	0	14	
		2608	0·302	16·5	160·3	+22·6	7	20	
		2608	0·359	19·2	158·1	+25·6	10	33	
		2599	0·181	9·2	163·9	+16·1	0	5	
		2599a	0·178	25·9	161·0	+15·1	114	499	
		2600a	0·397	159·6	157·4	−16·0	38	188	
		2601	0·239	57·8	153·7	+13·1	5	13	
		2601a	0·221	68·1	153·6	+10·5	38	205	
		2601	0·262	68·5	151·3	+11·2	0	40	
		2601	0·319	61·5	148·9	+14·4	5	37	
		2602a	0·385	73·8	143·5	+11·6	30	173	
		2602	0·411	73·7	141·9	+12·0	0	6	
		2602	0·444	75·7	139·7	+11·6	0	10	
		2602	0·472	74·0	138·0	+12·7	6	19	
		2611a	0·915	83·7	99·1	+ 8·2	22	100	1091c
		2611b	0·936	81·2	95·7	+10·3	45	152	
		2611	0·953	85·2	93·0	+ 6·4	0	98	
		2611c	0·964	83·7	90·7	+ 7·7	11	395	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2611. July 30–Aug. 11. Two large spots, *a* and *b*, are seen on July 30. By the succeeding day a large irregular spot, *c*, and a large regular spot, *d*, have also come into view, forming with *a* and *b* a fine complex stream. All the spots except *d* gradually diminish and disappear, *b* being no longer recognisable by Aug. 7, and *a* and *c* by Aug. 8. *d* alone remains on Aug. 10 and 11.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
212d.212	CL,AB	2611*d*	0·964	79·9	90·4	+11·3	0	475	1091*c*
I.		2612	0·977	114·2	91·6	−22·1	0	412	591*p*
July 31		Centre			(165·6)	(+5·9)	(440)	(3368)	(3221)
213·215	HA, AB		0·951	244·4	219·8	−22·0			223
		2613	0·905	247·0	213·1	−17·8	0	9	257*f*
M.		2609	0·705	273·1	197·2	+ 6·4	0	7	
		2609	0·679	272·2	195·1	+ 5·9	0	5	
		2609	0·643	268·9	192·2	+ 3·9	0	1	
		2597	0·607	209·2	171·5	−26·2	0	3	
		2597	0·569	210·7	170·7	−23·5	0	11	
		2597	0·575	204·3	167·5	−25·7	3	16	
		2598*a*	0·415	288·4	176·0	+13·0	43	393	
		2598	0·382	299·0	172·6	+16·3	0	12	
		2598	0·366	305·1	170·5	+17·8	0	2	
		2598	0·342	301·6	169·9	+16·0	0	36	
		2599*a*	0·220	317·8	161·1	+15·3	71	497	
		2608	0·311	332·9	161·0	+21·9	5	29	
		2608	0·230	328·6	159·5	+17·2	0	2	
		2608	0·336	342·5	158·7	+24·6	0	23	
		2608	0·366	347·4	157·4	+26·8	11	31	
		2600*a*	0·387	192·9	157·4	−16·1	28	185	
		2601*a*	0·084	340·8	153·9	+10·5	27	161	
		2601	0·126	351·5	153·4	+13·0	0	2	
		2601	0·103	11·3	151·1	+11·8	7	30	
		2601	0·164	20·3	148·9	+14·8	0	16	
		2602*a*	0·180	58·7	143·3	+11·3	26	140	
		2602	0·232	63·7	140·1	+11·8	0	7	
		2602	0·259	65·2	138·5	+12·1	0	14	
		2611*a*	0·790	85·2	99·9	+ 7·5	10	100	
		2611*b*	0·824	82·7	96·6	+ 9·4	26	76	
		2611	0·841	83·9	94·8	+ 8·4	0	6	
		2611*d*	0·867	81·1	91·9	+10·7	64	421	694*c*
		2611*c*	0·869	85·6	91·8	+ 6·8	20	374	
		2611	0·886	83·0	89·6	+ 9·0	0	7	
		2612	0·909	117·8	92·3	−22·2	72	273	572*sf*
			0·944	78·6	80·9	+12·7			731
Aug. 1		Centre			(152·3)	(+6·0)	(413)	(2889)	(2477)
214·401	CL,AB		0·950	247·7	204·8	−19·0			512
			0·870	273·2	197·3	+ 5·7			222
			0·876	313·0	193·4	+40·1			281

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
214d.401	CL,AB		0·856	235·8	187·9	−25·0			325
		2597	0·743	232·7	176·2	−22·1	0	6	281*c*
		2597	0·710	226·9	171·2	−24·0	0	45	
		2597	0·719	224·6	170·7	−25·8	14	106	
		2597	0·692	223·4	168·2	−25·0	0	16	292*c*
		2597	0·692	221·1	167·0	−26·2	9	64	
		2598*a*	0·636	282·7	176·0	+12·7	57	408	
		2598	0·580	289·9	171·2	+16·3	0	28	
		2608	0·509	306·9	162·9	+23·1	0	4	281*c*
		2608	0·485	304·7	161·9	+21·4	8	16	
		2608	0·473	319·4	156·8	+26·6	3	19	
		2599*a*	0·434	293·8	160·9	+15·6	78	441	257*c*
		2600*a*	0·506	222·4	157·4	−16·3	21	165	
		2600	0·449	213·8	151·7	−16·0	0	9	
		2600	0·393	205·4	146·7	−14·8	0	2	
		2601*a*	0·303	286·5	153·8	+10·7	23	137	
		2602*a*	0·147	309·5	143·3	+11·3	29	164	
		2602	0·125	294·6	143·3	+ 9·0	0	8	191*c*
		2611*a*	0·600	84·8	99·8	+ 7·9	19	131	
		2611*b*	0·647	82·3	96·3	+ 9·6	25	125	
		2611	0·676	89·0	94·1	+ 5·1	0	9	588*c*
		2611*d*	0·702	80·4	92·0	+11·0	82	282	
		2611*c*	0·705	85·7	91·8	+ 7·2	25	266	
		2612	0·787	123·9	92·2	−21·7	57	288	733*f*
			0·781	131·0	95·8	−26·2			200
			0·783	110·0	88·2	−11·6			184
			0·820	79·0	81·4	+12·4			692
Aug. 2		Centre			(136·7)	(+6·0)	(450)	(2739)	(5039)
215·604	HA,JG		0·965	274·4	195·7	+ 5·9			266
			0·977	241·3	193·5	−26·3			65
		2597	0·859	237·2	172·8	−24·0	15	149	
		2597	0·823	231·5	166·6	−26·6	23	126	550*c*
		2598*a*	0·819	281·2	175·9	+12·7	76	415	520*c*
		2608	0·690	295·6	162·7	+22·0	2	10	
		2608	0·641	304·7	156·6	+26·4	1	7	
		2599*a*	0·654	287·1	161·0	+15·8	60	440	
		2600	0·697	240·2	159·4	−15·5	0	9	
		2600*a*	0·680	237·7	157·4	−16·4	20	142	167*c*
		2600	0·610	233·3	151·2	−16·1	0	2	
		2601*a*	0·553	279·5	154·2	+10·3	9	47	
		2601	0·555	284·1	154·1	+12·9	0	15	129*c*
		2601	0·509	284·8	150·9	+12·8	4	18	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2612, July 31–Aug. 11. A large regular spot.
Group 2613, Aug. 1. A small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
215d.604	HA,JG	2602	0·393	277·8	143·8	+ 8·7	0	2	128c
		2602a	0·387	284·1	143·1	+11·0	33	173	
		2602	0·369	279·4	142·2	+ 9·1	0	9	
		2611a	0·360	83·9	99·6	+ 7·9	15	67	
		2611	0·409	87·1	96·5	+ 6·7	0	43	
		2611b	0·416	80·5	96·2	+ 9·5	25	100	255c
		2611	0·444	82·4	94·4	+ 8·8	0	7	
		2611c	0·471	87·0	92·5	+ 6·8	27	248	
		2611d	0·482	78·3	92·1	+11·0	83	389	
		2612	0·649	134·9	91·1	−21·9	62	289	144c
			0·755	130·4	81·6	−24·5			302
			0·663	77·5	79·3	+12·8			341
			0·922	119·3	59·3	−24·0			292
Aug. 3		Centre			(120·7)	(+6·1)	(455)	(2707)	(3159)
216·409	CL, HA	2597	0·935	242·1	174·0	−23·3	21	211	
		2597	0·915	241·2	170·6	−23·1	3	34	
		2597	0·916	239·2	170·1	−25·0	0	5	
		2597	0·905	237·5	168·0	−25·9	0	8	1037c
		2597	0·901	235·8	166·7	−27·1	0	50	
		2597	0·888	236·5	165·3	−25·9	9	82	
		2598a	0·908	281·1	175·8	+12·7	77	350	
		2598	0·886	282·7	172·9	+14·1	0	4	
		2608	0·804	293·2	162·9	+22·3	0	5	312nf
		2599a	0·776	285·5	160·9	+15·9	54	403	837c
		2600a	0·796	243·8	158·0	−16·4	25	130	552c
		2601	0·755	286·6	157·3	+10·7	0	2	
		2601a	0·698	278·4	154·5	+10·3	5	22	
		2601	0·654	282·0	150·9	+12·5	5	13	409c
		2601	0·649	279·6	150·6	+10·9	0	5	
		2602a	0·551	281·2	143·4	+11·2	31	181	163c
		2602	0·530	280·7	142·0	+10·9	0	2	
		2611a	0·182	79·6	99·7	+ 8·0	10	52	
		2611	0·223	87·2	97·2	+ 6·7	6	49	
		2611b	0·233	75·5	96·9	+ 9·4	17	100	
		2611	0·256	66·9	96·2	+11·7	0	7	
		2611	0·261	94·1	95·0	+ 4·9	0	12	
		2611	0·270	82·4	94·5	+ 8·0	0	48	
		2611	0·296	92·3	92·9	+ 5·2	4	31	
		2611d	0·308	74·0	92·6	+10·8	82	408	
		2611c	0·313	85·1	91·9	+ 7·4	25	170	
		2611	0·347	78·1	90·0	+ 9·9	1	25	
		2612	0·559	147·4	91·2	−22·1	72	329	1518f
1892.				°	°	°			
216d.409	CL,HA		0·938	123·6	47·4	−28·5			434
			0·922	78·0	42·4	+13·4			255
Aug. 4		Centre			(110·1)	(+6·2)	(447)	(2738)	(4150)
217·393	JG,AB	2597	0·993	245·3	176·6	−23·5	0	90	673c
		2597	0·969	239·7	167·1	−27·2	0	33	
		2598a	0·982	281·7	177·1	+12·7	76	276	778nf
		2599a	0·897	284·6	161·3	+15·8	49	356	960n
		2600a	0·902	248·8	157·9	−16·0	16	58	449c
		2601a	0·843	278·5	154·9	+10·5	0	20	
		2601	0·823	280·8	152·6	+12·1	0	9	440c
		2601	0·808	278·5	151·3	+10·5	0	8	
		2602a	0·729	279·5	144·0	+11·2	17	117	
		2611a	0·061	309·4	99·8	+ 8·5	7	20	
		2611	0·011	308·0	97·6	+ 6·7	0	32	
		2611b	0·052	359·4	97·2	+ 9·3	13	64	
		2611	0·053	103·5	94·1	+ 5·6	0	24	
		2611d	0·109	41·9	92·9	+10·9	62	399	
		2611c	0·090	76·7	92·1	+ 7·4	13	128	
		2612	0·482	168·5	91·2	−21·8	50	284	120c
		2614	0·918	78·7	30·0	+12·8	0	16	314nf
		2615a	0·989	121·9	21·1	−30·1	24	462	776sp
Aug. 5		Centre			(97·1)	(+6·3)	(327)	(2396)	(4510)
218·480	M,JG	2599b	0·981	284·1	162·6	+15·0	24	151	763n
		2599c	0·972	283·5	160·1	+14·5	17	123	
		2600a	0·981	252·4	159·0	−15·8	0	38	787sf
		2602a	0·882	279·3	145·1	+11·1	19	114	1178c
		2611a	0·305	278·6	100·5	+ 8·6	0	8	
		2611	0·271	271·6	98·5	+ 6·5	5	16	
		2611b	0·267	280·9	98·1	+ 9·0	6	23	
		2611	0·245	273·3	97·0	+ 6·9	0	1	
		2611	0·221	265·6	95·5	+ 5·2	0	8	
		2611d	0·206	292·7	93·9	+10·7	85	392	
		2611	0·188	277·6	93·6	+ 7·6	0	34	
		2611c	0·169	272·8	92·5	+ 6·7	4	32	
		2611	0·210	313·3	91·8	+14·5	0	5	
		2611	0·168	301·1	91·2	+11·2	1	13	
		2611	0·144	298·0	90·2	+10·1	1	9	
		2612	0·499	196·5	91·6	−22·3	75	295	236c
		2616	0·537	104·5	51·6	− 2·3	0	7	
		2614	0·794	78·3	30·0	+13·1	1	12	50f

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

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

Group 2614, Aug. 5–10. A small spot.

Group 2615, Aug. 5–16. A large irregular compound spot, *a*, accompanied by a few small companions from Aug. 9 to Aug. 12. *a* undergoes considerable changes of shape.

Group 2616, Aug. 6. A very small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
218d·480	M,JG	2615*a*	0·944	125·1	19·7	−30·1	97	432	954*c*
		2617*a*	0·955	101·0	11·6	− 8·5	33	111	641*f*
			0·834	135·8	39·6	−32·1			350
			0·895	54·7	21·0	+34·2			221
			0·881	72·1	20·7	+18·7			194
			0·952	76·8	9·8	+14·5			131
Aug. 6		Centre			(82·8)	(+6·3)	(368)	(1824)	(5505)
219·518	HA,JG	2602	0·967	280·0	145·1	+11·3	4	67	977*n*
		2611*a*	0·512	276·4	99·9	+ 8·7	0	5	
		2611*b*	0·482	275·8	98·0	+ 8·4	4	14	
		2611	0·481	272·7	97·9	+ 6·9	0	8	
		2611	0·427	268·4	94·4	+ 5·1	0	6	
		2611*d*	0·421	282·0	93·8	+10·8	75	404	
		2611	0·406	275·5	93·1	+ 8·1	0	12	
		2611*c*	0·387	272·4	91·9	+ 6·8	0	12	
		2611	0·375	283·2	90·8	+10·8	0	21	
		2612	0·588	216·3	91·1	−22·3	61	302	186*c*
		2614	0·632	77·4	30·0	+12·9	0	8	
		2615*a*	0·875	130·0	18·4	−30·3	58	396	866*c*
		2617*a*	0·864	104·1	11·4	− 8·7	22	102	
		2617	0·907	104·9	6·2	−10·6	0	21	
		2618*a*	0·968	106·0	356·0	−13·7	0	29	576*c*
		2618*b*	0·985	106·6	351·5	−15·0	0	27	
			0·757	145·3	38·3	−33·0			384
Aug. 7		Centre			(69·1)	(+6·4)	(224)	(1434)	(2989)
220·489	HA,JG	2611	0·676	274·4	98·9	+ 7·6	0	8	
		2611*d*	0·612	279·3	94·0	+10·7	73	395	314*p*
		2611	0·601	272·5	93·2	+ 6·6	0	17	
		2612	0·705	228·9	91·1	−22·3	68	280	189*c*
		2614	0·452	73·3	29·9	+13·2	0	9	
		2619*a*	0·544	71·7	24·0	+15·3	0	6	
		2619*b*	0·557	69·9	23·3	+16·4	0	7	
		2615*a*	0·793	137·0	17·5	−30·5	48	402	626*c*
		2617*a*	0·739	108·0	11·1	− 8·7	19	113	512*c*
		2617	0·787	109·2	7·2	−10·8	0	6	
		2620	0·712	78·6	10·7	+12·6	0	16	
		2620*a*	0·738	78·2	8·5	+13·1	0	12	
		2618*a*	0·887	108·6	356·7	−13·2	18	88	639*c*
		2618*b*	0·928	109·0	351·1	−15·0	1	86	
Aug. 8		Centre			(56·2)	(+6·4)	(227)	(1445)	(2280)
1892.				°	°	°			
221d·333	HA,JG		0·853	278·3	103·9	+10·4			281
		2611*d*	0·753	278·9	94·1	+11·0	52	459	
	M.	2611	0·747	272·6	93·5	+ 6·3	0	5	
		2611	0·724	278·0	91·6	+10·3	0	21	219*c*
		2611	0·722	280·2	91·4	+11·9	0	21	
		2611	0·714	276·2	90·8	+ 9·0	0	4	
		2612	0·798	235·9	90·3	−22·0	36	268	180*c*
		2614	0·278	64·2	30·2	+13·2	0	6	
		2619*a*	0·388	64·6	23·8	+15·6	0	2	
		2615	0·682	143·7	18·0	−27·5	0	5	
		2615*a*	0·717	145·6	17·1	−30·5	42	323	
		2615	0·747	146·3	15·6	−32·7	0	5	453*c*
		2615	0·742	145·1	15·1	−31·8	0	7	
		2615	0·764	146·5	14·6	−33·9	0	14	
		2620*b*	0·525	78·1	13·5	+11·7	9	50	231*c*
		2620*a*	0·598	76·5	8·5	+13·2	11	57	
		2617*a*	0·605	113·9	11·1	− 8·8	11	109	151*c*
		2618*a*	0·788	112·7	356·8	−13·4	13	88	554*p*
		2618*b*	0·844	111·9	351·2	−14·5	0	20	
			0·973	125·7	335·7	−32·5			139
			0·932	70·5	335·6	+20·6			142
Aug. 9		Centre			(45·0)	(+6·5)	(174)	(1464)	(2350)
222·524	HA,AB		0·782	278·1	81·0	+10·4			496
			0·853	229·9	77·5	−29·1			420
		2611*d*	0·897	278·9	93·5	+10·8	78	411	1215*p*
		2612	0·916	242·3	90·2	−22·1	54	265	401*c*
		2614	0·119	351·3	30·4	+13·2	0	5	
		2615*a*	0·627	162·5	16·7	−30·3	37	335	
		2615	0·685	161·4	14·1	−34·1	0	15	235*s*
		2615	0·658	159·1	13·4	−31·5	0	15	
		2620*b*	0·280	69·2	13·9	+11·9	7	37	
		2620	0·314	73·4	11·5	+11·4	0	6	
		2620*a*	0·374	67·6	8·5	+14·2	14	44	
		2621*a*	0·414	40·3	12·2	+24·5	0	7	
		2617*a*	0·401	129·0	11·0	− 8·4	17	91	
		2618*a*	0·620	121·3	356·5	−13·3	11	70	
		2618	0·642	124·7	356·1	−16·0	0	4	610*f*
		2618	0·688	118·7	350·9	−14·2	1	6	
		2618	0·692	118·8	350·7	−14·4	4	16	
		2622*a*	0·966	81·0	313·6	+10·4	20	267	462*c*
			0·826	56·6	336·0	+31·0			287
Aug. 10		Centre			(29·3)	(+6·5)	(243)	(1594)	(4126)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated, are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2617, Aug. 6–16. An ill-defined spot, *a*, with a small companion on Aug. 7 and 8.
Group 2618, Aug. 7–13. Two ill-defined spots, *a* and *b*. *b* has broken up, and the whole group forms a short stream on Aug. 10. *a* has also broken up by Aug. 13.
Group 2619, Aug. 8–9. Two very small spots, *a* and *b*, on Aug. 8. Only *a* is seen on Aug. 9.
Group 2620, Aug. 8–17. A small irregular group on Aug. 8. Two spots, *a* and *b*, are seen on Aug. 9, and the group forms a straggling stream by Aug. 10. The preceding spot, *b*, diminishes and disappears, and *a* alone is seen on Aug. 13 and the succeeding days.
Group 2621, Aug. 10–17. An irregular group. On Aug. 12 it forms a stream of two spots, *a* and *b*, connected by curving lines of very small spots. These connections are very apparent on Aug. 13, when the whole forms an almost continuous stream. *a* alone is seen on Aug. 17.
Group 2622, Aug. 10–22. A large regular spot, *a*. Small companions are seen on Aug. 15 and the three succeeding days.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
223d.413	CL,M		0·885	282·9	80·3	+14·5			762
		2611*d*	0·970	279·8	94·2	+11·1	72	381	423*s*
		2612	0·974	245·8	90·2	−21·7	68	349	440*sf*
		2615*a*	0·600	178·8	16·7	−30·1	43	265	
		2615	0·613	175·5	14·3	−30·9	0	15	267*c*
		2615	0·635	174·1	13·1	−32·4	0	9	
		2620*b*	0·108	14·4	15·9	+12·5	5	16	
		2620	0·105	29·7	14·5	+11·8	0	4	
		2620*a*	0·199	44·2	9·3	+14·7	10	41	
		2621*a*	0·319	9·1	14·3	+24·9	0	16	
		2621*b*	0·339	15·2	11·9	+25·6	6	23	
		2617*a*	0·280	157·5	11·3	− 8·4	19	77	
		2618*a*	0·489	134·0	356·4	−13·7	10	59	
		2618	0·549	129·5	351·7	−14·5	0	10	
		2622*a*	0·892	81·9	314·0	+10·2	52	360	1065*c*
		2623	0·964	99·5	304·3	− 7·3	21	124	394*c*
			0·790	120·6	331·6	−19·1			292
Aug. 11		Centre			(17·5)	(+6·6)	(306)	(1749)	(3643)
224·280	CL,AB		0·938	284·3	76·4	+15·7			1428
			0·957	240·7	73·5	−25·5			475
I.			0·808	224·0	46·5	−30·5			803
			0·720	208·3	30·0	−33·2			567
		2615*a*	0·618	193·4	15·5	−30·3	41	202	
		2615	0·668	189·1	13·3	−34·5	0	12	281*c*
		2620	0·305	298·8	22·0	+14·8	0	5	
		2620	0·208	299·4	16·6	+12·4	2	9	
		2620*a*	0·154	335·7	9·7	+14·7	11	59	
		2621*a*	0·352	332·2	16·4	+24·6	18	42	
		2621	0·354	335·9	15·2	+25·3	0	5	
		2621	0·328	338·5	13·5	+24·3	0	3	
		2621*b*	0·335	344·0	11·8	+25·2	12	62	
		2617*a*	0·279	199·2	11·3	− 8·6	12	66	73*c*
		2618*a*	0·391	153·1	355·5	−13·8	5	33	
		2618	0·433	147·1	352·0	−14·8	3	24	
		2622*a*	0·792	82·0	313·3	+10·4	64	299	961*f*
		2623	0·905	101·4	302·8	− 7·4	17	121	343*s*
			0·977	113·7	292·3	−21·4			207
Aug. 12		Centre			(6·0)	(+6·6)	(185)	(942)	(5138)
225·404	HA,AB		0·836	224·3	34·5	−31·9			466
		2624	0·947	249·7	59·0	−16·7	0	45	
		2621*a*	0·504	309·0	16·6	+24·5	22	73	
1892.				°	°	°			
225d.404	HA,AB	2621	0·497	311·1	15·5	+25·1	1	3	
		2621	0·472	311·7	13·9	+24·5	0	3	
		2621*b*	0·454	315·6	11·7	+25·2	22	93	
		2615*a*	0·689	210·7	15·1	−30·1	32	156	
		2617*a*	0·435	234·4	12·1	− 8·3	10	39	
		2620*a*	0·350	294·2	10·4	+14·5	10	44	
		2618	0·393	192·5	356·3	−15·8	0	2	
		2618	0·350	193·0	355·8	−13·2	2	10	
		2622*a*	0·608	82·1	313·6	+10·1	42	260	
		2623	0·764	105·6	303·5	− 7·3	10	69	320*c*
		2625	0·906	118·6	292·1	−22·3	0	8	130*c*
		2626*a*	0·950	111·7	283·2	−18·1	8	66	
		2626	0·972	112·7	278·7	−20·1	0	28	442*s*
		2627	0·995	69·4	265·1	+21·1	0	160	201*c*
			0·874	81·4	289·8	+10·8			214
Aug. 13		Centre			(351·2)	(+6·7)	(159)	(1059)	(1773)
226·539	JG,AB		0·904	287·8	41·4	+18·9			103
			0·924	232·9	34·9	−30·5			271
			0·800	213·0	8·9	−36·5			261
		2621*a*	0·684	299·0	17·1	+24·4	20	212	
		2621*b*	0·624	302·2	11·6	+24·8	11	86	206*c*
		2615*a*	0·791	222·8	14·5	−30·2	31	114	315*sp*
		2617*a*	0·638	248·2	12·8	− 8·3	16	35	
		2620*a*	0·571	285·1	10·7	+14·1	7	26	
		2622*a*	0·382	80·1	313·8	+10·0	39	262	
		2623	0·585	112·1	303·2	− 7·1	12	77	
		2625	0·793	124·7	291·7	−22·1	0	9	
		2626*a*	0·838	116·2	284·3	−17·6	32	310	
		2626	0·861	113·0	280·9	−15·8	0	17	856*c*
		2626	0·903	116·2	277·8	−20·1	0	17	
		2627*a*	0·923	69·4	268·2	+21·5	9	81	
		2627*b*	0·958	70·0	261·8	+21·0	0	54	940*c*
		2627*c*	0·982	69·2	255·7	+21·7	32	140	
Aug. 14		Centre			(336·2)	(+6·7)	(209)	(1440)	(2952)
227·435	CL,JG		0·865	286·1	24·6	+17·3			291
			0·873	220·5	9·3	−36·9			357
		2621*a*	0·811	296·0	17·6	+25·0	14	141	
		2621	0·775	300·0	13·2	+27·3	0	8	355*c*
		2621*b*	0·757	297·2	12·0	+24·9	6	37	
		2615*a*	0·874	229·0	14·2	−30·7	33	95	408*np*

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2623, Aug. 11–22. A regular spot.
Group 2624, Aug. 13. A small irregular group.
Group 2625, Aug. 13–15. A small spot.
Group 2626, Aug. 13–24. A large irregular spot, *a*, followed by a stream of small spots. This stream curves obliquely towards Group 2628, but gradually diminishes and has disappeared by Aug. 23, leaving *a* alone. *a* throws off small spots from time to time and gradually diminishes in size until its disappearance at the West limb.
Group 2627, Aug. 13–26. A fine stream consisting of four large spots, *a*, *b*, *c*, and *d*, and several smaller spots. *b*, *c*, and *d*, have begun to break up by Aug. 17. There are now three principal spots, *a*, *c*, and *e*, and the group forms two streams inclined at an obtuse angle.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
227d.435	CL, JG	2617*a*	0·782	253·7	13·4	− 8·2	5	24	
		2620*a*	0·728	283·2	11·1	+14·2	5	47	
		2622	0·183	47·7	316·3	+13·8	0	5	
		2622	0·208	54·9	314·3	+13·5	0	19	
		2622*a*	0·189	72·7	313·8	+ 9·9	41	258	
		2622	0·213	77·7	312·2	+ 9·3	0	9	
		2623	0·430	122·9	303·1	− 7·1	13	70	
		2625	0·694	133·3	291·2	−22·0	0	4	
		2626*a*	0·733	122·1	283·8	−17·8	47	330	
		2626	0·778	123·9	280·8	−20·8	0	4	
		2626	0·773	118·8	279·3	−17·1	0	66	708*c*
		2626	0·818	121·7	276·3	−21·0	5	35	
		2628*a*	0·888	122·5	268·9	−24·7	6	69	
		2627*a*	0·829	67·6	268·6	+22·3	14	131	
		2627	0·841	71·0	266·9	+19·6	0	10	
		2627	0·852	68·7	265·9	+21·7	0	7	
		2627	0·881	69·8	262·3	+20·9	0	8	1117*c*
		2627*b*	0·897	69·6	260·1	+21·3	21	67	
		2627*c*	0·930	69·3	255·1	+21·7	50	306	
		2627*d*	0·960	68·8	249·3	+22·2	31	171	
Aug. 15		Centre			(324·3)	(+6·8)	(291)	(1921)	(3236)
228·216	HA, JG		0·939	283·3	24·7	+14·8			218
			0·864	288·5	14·1	+19·4			298
M.			0·898	246·1	13·4	−17·9			159
		2621*a*	0·901	294·9	18·5	+25·3	48	119	497*c*
		2621*b*	0·851	294·9	12·0	+24·7	0	14	
		2617	0·880	256·5	13·7	− 8·5	0	15	
		2615*a*	0·924	232·7	12·5	−30·6	22	43	1140*c*
		2620*a*	0·837	282·4	11·2	+14·1	0	16	267*c*
		2622	0·113	326·2	317·7	+12·2	0	8	
		2622	0·124	337·0	316·8	+13·4	0	9	
		2622*a*	0·052	354·2	314·3	+ 9·7	36	272	
		2622	0·124	1·4	313·8	+14·0	1	7	
		2629	0·411	179·7	313·9	−17·3	0	6	
		2629	0·418	176·1	312·3	−17·7	0	3	
		2623	0·304	142·2	303·2	− 7·1	10	65	
		2626*a*	0·631	129·5	283·4	−17·8	49	332	
		2626	0·640	125·8	281·4	−16·2	0	3	
		2626	0·656	125·6	280·3	−16·7	0	5	
		2626	0·675	124·9	278·7	−17·1	4	56	680*c*
		2626	0·728	128·5	276·4	−21·6	0	14	
		2628*a*	0·804	127·5	269·7	−24·5	5	69	
		2628	0·830	125·6	266·4	−24·3	0	4	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
228d.216	HA, JG	2628	0·847	125·6	264·6	−25·2	2	14	
		2627*a*	0·715	64·7	269·7	+22·6	24	144	
M.		2627	0·778	68·3	263·4	+21·1	0	11	
		2627*b*	0·804	68·1	260·8	+21·6	13	87	927*c*
		2627*c*	0·851	68·4	255·7	+21·9	43	297	
		2627*d*	0·889	68·5	250·9	+22·2	15	145	
			0·897	119·3	256·3	−22·5			243
Aug. 16		Centre			(314·0)	(+6·8)	(272)	(1758)	(4429)
229·413	M, AB		0·947	254·2	7·0	−12·5			273
			0·975	230·4	6·4	−36·1			1083
			0·864	248·9	354·3	−14·3			257
		2621*a*	0·979	294·8	18·2	+25·6	0	93	2458*f*
		2620*a*	0·953	282·6	11·4	+14·1	0	11	3108*p*
		2622	0·353	287·2	318·3	+12·5	0	4	
		2622	0·343	281·4	318·1	+10·4	0	2	
		2622	0·344	293·1	317·2	+14·3	0	4	
		2622	0·320	284·4	316·5	+11·1	0	6	
		2622*a*	0·285	281·2	314·6	+ 9·8	48	287	
		2630	0·489	218·4	316·5	−15·9	2	9	
		2623	0·253	200·2	303·2	− 6·8	10	43	
		2626*a*	0·488	149·6	283·2	−18·2	56	372	
		2626	0·531	142·2	278·2	−18 2	1	14	
		2626	0·584	142·1	275·7	−21·0	0	6	
		2628*a*	0·665	140·1	270·3	−24·5	15	92	
		2628	0·706	141·3	268·5	−27·4	0	6	
		2628	0·721	135·9	264·6	−25·3	0	9	
		2627*a*	0·521	56·2	270·3	+23·0	27	165	106*c*
		2627*e*	0·559	64·3	265·9	+19·9	0	9	
		2627*b*	0·625	63·5	261·3	+21·7	11	122	
		2627*c*	0·696	64·5	255·5	+22·6	20	237	305*c*
		2627*d*	0·751	66·9	250·2	+21·8	0	180	
Aug. 17		Centre			(298·2)	(+6·9)	(190)	(1661)	(2579)
230·226	CL, AB		0·938	246·9	352·9	−18·8			417
			0·900	289·9	352·1	+20·9			346
I.		2631	0·919	241·2	348·3	−23·0	0	14	287*np*
		2622	0·530	281·9	319·3	+12·1	0	7	
		2622	0·478	284·5	315·6	+12·9	0	6	
		2622*a*	0·462	278·1	314·9	+ 9·8	54	238	
		2630	0·609	232·3	317·3	−15·8	0	11	
		2623	0·355	229·4	303·1	− 6·7	9	67	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2628, Aug. 15–23. An irregular spot, *a*, followed by a stream of small spots. The group lies close to Group 2626. It undergoes considerable changes from day to day, and *a* remains alone by Aug. 21.
Group 2629, Aug. 16. Two very small spots.
Group 2630, Aug. 17–18. A small spot.
Group 2631, Aug. 18. A small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
230d·226	CL,AB	2626*a*	0·431	170·5	283·1	−18·1	45	277	
		2626	0·427	165·9	281·2	−17·5	0	33	135*c*
I.		2626	0·452	160·1	278·6	−17·0	0	10	
		2626	0·499	156·3	275·1	−20·4	0	4	
		2632	0·395	136·1	271·3	− 9·8	0	7	
		2628*a*	0·591	151·6	269·5	−24·6	14	93	194*c*
		2628	0·634	147·7	265·4	−25·9	0	31	
		2627*a*	0·392	42·0	270·9	+23·5	45	167	
		2627	0·425	53·5	266·0	+21·0	0	3	
		2627*a*	0·442	57·7	264·1	+19·9	2	15	
		2627	0·477	54·2	262·8	+22·5	0	72	
		2627	0·470	58·4	262·2	+20·4	0	40	
		2627	0·498	57·2	260·7	+21·8	20	78	466*c*
		2627	0·512	54·2	260·6	+23·5	0	17	
		2627	0·497	61·8	259·8	+19·6	0	15	
		2627*c*	0·574	59·4	255·1	+22·8	29	218	
		2627	0·608	62·2	252·0	+22·2	0	29	
		2627*d*	0·637	63·0	249·7	+22·3	17	110	
Aug. 18		Centre			(287·4)	(+6·9)	(235)	(1562)	(1845)
231·467	~~AE~~ JG	2622*a*	0·693	276·9	314·9	+ 9·7	23	231	165*c*
	AE	2623	0·572	247·3	302·8	− 6·8	14	37	
M.		2626*a*	0·471	204·8	282·8	−18·5	7	148	
		2626	0·447	205·1	282·2	−17·0	0	10	
		2626	0·503	199·9	281·4	−21·3	0	8	
		2626	0·479	201·3	281·4	−19·6	0	29	
		2626	0·453	201·5	280·8	−18·1	0	18	
		2626	0·453	195·8	278·3	−18·9	0	8	
		2626	0·448	192·6	276·7	−18·9	0	3	
		2628*a*	0·531	177·0	269·0	−25·0	8	39	
		2627*a*	0·286	357·6	271·5	+23·4	28	168	192*c*
		2627*e*	0·242	26·0	264·4	+19·4	0	12	
		2627	0·286	25·1	263·3	+21·8	6	68	
		2627	0·266	31·5	262·3	+19·9	0	7	
		2627	0·281	35·4	260·9	+19·9	0	7	
		2627	0·329	29·1	260·8	+23·5	0	23	
		2627	0·305	34·1	260·3	+21·4	8	60	
		2627*c*	0·383	43·0	254·4	+22·8	19	160	
		2627*d*	0·438	53·7	248·6	+21·3	0	17	
Aug. 19		Centre			(270·8)	(+6·9)	(113)	(1053)	(357)
232·460	CL,JG	2622*a*	0·838	277·0	315·2	+ 9·7	30	249	539*c*
		2623	0·737	254·2	303·3	− 6·7	9	47	255*c*
1892.				°	°	°			
232d·460	CL,JG	2626	0·568	226·4	283·2	−16·6	0	4	
		2626*a*	0·579	223·9	282·8	−18·2	17	114	
		2626	0·591	220·0	281·7	−20·4	0	4	
		2626	0·557	223·8	281·6	−17·3	0	10	381*c*
		2626	0·579	220·9	281·5	−19·5	5	38	
		2626	0·561	221·2	280·7	−18·5	0	29	
		2626	0·542	217·9	278·4	−18·7	0	8	
		2628*a*	0·557	199·9	269·9	−24·6	7	35	
		2628	0·569	197·3	268·7	−25·9	4	22	269*c*
		2628	0·562	194·3	266·8	−26·0	0	18	
		2727*a*	0·365	321·5	272·2	+23·3	25	144	235*c*
		2627*a*	0·250	330·8	265·3	+19·5	2	13	
		2627	0·267	337·9	264·1	+21·3	10	69	
		2627	0·293	350·3	261·0	+23·7	0	10	
		2627	0·235	347·8	260·9	+20·2	0	6	
		2627	0·250	350·2	260·5	+21·2	2	27	
		2627	0·230	6·6	256·3	+20·2	0	21	
		2627*c*	0·280	10·2	254·8	+22·9	24	133	
		2627	0·255	17·2	253·3	+21·0	6	29	
		2627	0·243	23·2	252·1	+19·8	0	12	
		2627*d*	0·274	29·8	249·6	+20·6	4	30	
		2633	0·568	175·6	255·1	−27·3	0	6	
		2634	0·547	164·4	248·6	−24·8	0	8	
		2635	0·724	119·6	217·2	−15·7	0	16	264*c*
		2635	0·757	114·6	213·0	−13·4	0	10	
		2636*a*	0·990	77·9	175·0	+12·9	0	172	
			0·879	118·7	202·4	−21·0			382
			0·908	125·4	201·1	−28·0			360
			0·991	114·1	179·4	−22·6			701
Aug. 20		Centre			(257 9)	(+7·0)	(145)	(1284)	(3386)
233·502	M, AB	2622*a*	0·945	278·0	315·7	+ 9·8	21	193	308*c*
		2623	0·872	258·0	303·2	− 6·9	0	12	
		2637	0·759	280·4	293·9	+12·5	1	10	
		2626*a*	0·718	235·8	282·8	−18·3	14	66	
		2626	0·704	233·9	281·2	−18·9	0	31	
		2628*a*	0·652	217·5	270·0	−24·8	0	12	
		2627*a*	0·526	304·5	272·3	+23·5	20	124	
		2627	0·505	304·6	270·9	+22·8	0	7	
		2627*e*	0·416	307·7	264·8	+21·3	5	28	
		2627*c*	0·319	328·6	254·5	+22·7	19	86	
		2627	0·285	329·4	253·1	+21·1	0	4	
		2627	0·261	327·4	252·7	+19·6	0	4	

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

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

Group 2632, Aug. 18. A very small spot.
Group 2633, Aug. 20. A very small spot.
Group 2634, Aug. 20-23. A small spot on Aug. 20. A short stream of very small spots on the succeeding days.
Group 2635, Aug. 20–26. A few small spots in an irregular cluster. It has extended into a straight stream by Aug. 24 and the succeeding days.
Group 2636, Aug. 20–Sept. 1. A regular spot, *a*. Small companions are seen *n* of *a*, on Aug. 24, and the succeeding days; and one is seen, *p*, on Aug. 31.
Group 2637, Aug. 21–22. One small spot on Aug. 21; two on Aug. 22.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
233d·502	M,AB	2627*d*	0·253	338·3	249·9	+20·5	0	6	
		2634	0·499	181·1	244·8	−22·8	0	5	
		2634	0·498	173·4	240·7	−22·5	0	5	
		2635	0·573	126·8	216·1	−13·8	0	4	
		2638	0·626	62·8	207·4	+22·2	9	54	
		2636*a*	0·938	78·8	173·7	+13·0	4	167	167*nf*
Aug. 21		Centre			(244·2)	(+7·0)	(93)	(818)	(475)
234·432	HA,JG		0·928	284·7	300·8	+16·2			105
		2622*a*	0·989	279·2	314·2	+10·1	18	205	365*f*
		2623	0·953	260·6	302·9	− 6·7	0	8	127*c*
		2637	0·904	280·0	297·2	+12·1	0	2	112*c*
		2637	0·871	280·3	293·0	+12·4	0	11	
		2626*a*	0·826	241·2	281·7	−19·0	15	91	226*c*
		2626	0·817	240·6	280·6	−19·0	4	35	
		2626	0·792	237·4	277·1	−20·3	0	5	144*c*
		2628*a*	0·760	227·4	270·0	−25·4	5	24	107*c*
		2627*a*	0·667	298·1	271·7	+23·7	21	127	
		2627*e*	0·571	297·3	264·7	+21·0	12	52	
		2627	0·520	295·5	261·5	+19·0	0	7	
		2627	0·525	302·8	260·3	+22·6	0	4	
		2627*c*	0·448	308·0	254·3	+22·5	16	101	
		2627	0·409	303·0	253·1	+19·3	0	2	
		2627*d*	0·378	309·3	250·0	+20·5	0	1	
		2634	0·542	206·2	246·8	−22·2	0	4	
		2634	0·532	203·6	245·2	−22·3	0	6	
		2634	0·517	194·7	240·1	−23·3	0	6	
		2635	0·433	142·6	216·3	−13·3	1	5	
		2635	0·463	144·5	215·8	−15·4	0	4	
		2638*a*	0·460	53·8	208·4	+22·2	9	57	
		2638	0·475	55·0	207·2	+22·1	0	11	
		2638	0·486	56·4	206·1	+21·9	0	3	
		2638	0·500	54·0	205·9	+23·4	2	16	
		2638	0·524	55·2	204·0	+23·6	0	15	
		2638	0·532	57·3	203·0	+22·8	0	4	
		2636*a*	0·843	78·9	174·0	+13·1	32	179	1128*f*
			0·907	121·9	173·9	−25·0			488
			0·951	108·8	163·1	−15·4			291
Aug. 22					(231·9)	(+7·0)	(135)	(985)	(3093)
235·400	CL,JG		0·966	280·9	295·0	+12·3			109
			0·898	287·3	283·6	+18·6			187
			0·758	227·9	257·3	−25·0			190
1892.				°	°	°			
235d·400	CL,JG	2626*a*	0·923	246·7	282·1	−18·3	16	87	599*c*
		2626	0·915	245·1	280·5	−19·4	0	12	
		2626	0·892	242·9	276·7	−20·2	0	8	
		2628*a*	0·855	234·8	269·4	−25·0	0	10	224*c*
		2627*a*	0·807	294·6	272·3	+24·0	13	92	342*c*
		2627*e*	0·731	292·9	265·2	+21·5	9	56	
		2627	0·666	291·4	260·1	+19·5	0	6	108*c*
		2627	0·628	295·2	256·5	+21·1	0	7	297*c*
		2627*c*	0·606	297·7	254·4	+22·2	22	101	
		2634	0·652	223·2	247·8	−22·1	1	9	96*c*
		2634	0·598	213·3	240·0	−23·3	0	6	
		2635	0·360	180·4	219·3	−14·0	6	17	191*c*
		2635	0·355	174·4	217·1	−13·5	0	8	
		2635	0·370	173·4	216·6	−14·4	0	14	
		2635	0·368	166·0	213·9	−13·8	0	7	
		2638*a*	0·308	30·9	209·3	+22·3	11	136	336*c*
		2638	0·350	34·7	206·6	+23·6	0	6	
		2638	0·369	38·4	204·7	+23·6	11	60	
		2636*a*	0·707	78·6	173·9	+13·1	23	144	342*f*
			0·774	131·3	179·2	−25·3			354
			0·908	124·0	161·8	−26·8			337
			0·892	112·7	160·2	−16·6			329
			0·888	77·6	155·9	+14·2			808
			0·910	165·8	153·0	+25·0			260
			0·962	109·0	148·2	−16·0			291
Aug. 23		Centre			(219·1)	(+7·1)	(112)	(786)	(5400)
236·533	CL,JG		0·933	238·5	266·3	−26·0			279
		2626*a*	0·987	249·8	281·7	−18·5	0	41	374*f*
		2627*a*	0·922	292·9	272·4	+24·1	8	44	302*c*
		2627*e*	0·877	290·8	265·8	+21·6	0	11	
		2627	0·808	291·8	257·8	+21·7	0	10	355*c*
		2627	0·787	289·8	256·0	+19·9	0	5	
		2627*c*	0·772	292·9	254·1	+22·1	14	70	
		2635	0·447	218·7	220·8	−13·5	5	25	
		2635	0·424	214·6	218·5	−13·5	0	3	
		2635	0·405	206·8	215·0	−14·1	3	12	
		2638*a*	0·283	340·5	210·0	+22·5	17	84	
		2638	0·290	350·9	207·1	+23·6	0	6	
		2638	0·299	0·5	204·0	+24·4	1	14	
		2638	0·323	1·9	203·5	+25·9	0	4	
		2636	0·434	74·4	175·6	+13·7	2	11	264*c*

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2638, Aug. 22–29. A number of small spots in an irregular stream, the leader, *a*, being the largest. The following spots diminish, and by Aug. 25 *a* alone is left. A small follower is seen on Aug. 27.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
236d.533	CL,JG	2636	0·488	70·3	175·8	+15·7	0	17	
		2636	0·513	72·6	173·9	+15·0	0	5	264c
		2636a	0·509	76·1	173·8	+13·2	29	145	
			0·803	130·3	161·4	−26·1			277
			0·894	112·3	144·9	−16·3			277
			0·864	70·5	144·1	+20·4			410
Aug. 24		Centre			(204·2)	(+7·1)	(79)	(507)	(2538)
237·516	HA,JG		0·905	238·2	248·9	−24·8			520
		2627a	0·980	292·6	271·5	+23·5	0	31	
		2627c	0·879	290·5	253·1	+21·3	8	44	932c
		2635	0·601	236·9	222·2	−13·1	5	19	
		2635	0·572	232·4	218·9	−14·1	0	6	
		2635	0·550	228·2	216·2	−15·0	3	11	219c
		2635	0·524	227·7	214·7	−14·1	1	3	
		2638a	0·415	309·1	211·4	+21·8	10	113	
		2636	0·286	60·0	176·4	+15·1	0	5	
		2636	0·283	65·5	175·9	+13·6	0	4	
		2636	0·312	58·1	175·3	+16·3	3	12	
		2636	0·318	64·2	174·1	+14·7	0	7	
		2636a	0·315	70·4	173·6	+12·8	31	141	
		2640	0·593	127·1	162·0	−14·7	0	14	
		2639	0·730	83·9	144·1	+ 9·3	0	7	
		2639	0·756	82·4	141·8	+10·4	0	5	169c
			0·707	142·2	162·0	−27·7			213
			0·764	120·0	147·5	−17·3			288
			0·736	69·4	144·3	+19·9			377
			0·987	117·0	115·2	−25·1			298
			0·983	107·4	114·5	−15·6			215
			0·976	80·1	113·0	+11·1			112
Aug. 25		Centre			(191·2)	(+7·1)	(61)	(422)	(3343)
238·445	HA,JG		0·941	242·1	243·4	−23·2			295
		2627c	0·957	290·6	253·1	+21·7	0	37	492c
		2635	0·744	245·5	222·6	−12·8	0	6	
		2635	0·667	239·2	214·9	−14·2	0	4	
		2638a	0·585	297·1	212·6	+21·3	15	87	
		2636	0·155	14·2	176·5	+15·7	0	8	
		2636	0·127	23·3	175·8	+13·8	0	6	
		2636	0·173	17·3	175·7	+16·6	0	8	
		2636	0·160	33·7	173·6	+14·7	0	6	
		2636a	0·136	43·4	173·3	+12·8	20	130	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
238d.445	HA,JG	2636	0·179	38·5	172·2	+15·1	0	4	
		2636	0·197	34·9	172·1	+16·3	2	10	
		2640	0·467	146·7	163·4	−16·1	3	11	
		2640	0·482	141·6	160·8	−15·4	0	4	
		2639a	0·539	84·9	146·0	+ 8·7	0	11	
		2639	0·561	83·9	144·5	+ 9·3	0	6	
		2639	0·597	81·4	142·0	+10·8	1	14	
		2641	0·914	120·5	119·3	−24·1	0	17	212c
		2641	0·937	119·7	115·5	−24·6	0	17	
		2642	0·909	110·0	116·9	−14·8	0	7	271f
		2643a	0·990	78·9	96·0	+11·9	4	156	793sp
Aug. 26		Centre			(178·8)	(+7·1)	(45)	(549)	(2063)
239·222	CL,HA		0·974	290·8	247·0	+21·8			374
			0·968	244·8	239·4	−22·2			359
M.			0·811	245·8	218·2	−14·8			340
		2638a	0·718	292·8	213·6	+21·3	12	94	171c
		2638	0·679	293·9	210·1	+21·3	0	6	
		2636	0·202	322·9	175·7	+16·4	0	6	
		2636a	0·127	318·4	173·4	+12·6	9	113	
		2636	0·177	336·2	172·8	+16·4	0	5	
		2636	0·146	337·2	171·8	+14·9	0	7	
		2640	0·409	168·8	163·8	−16·4	3	27	
		2640	0·404	164·8	162·2	−15·7	0	4	
		2639a	0·367	84·5	146·9	+ 8·7	0	3	
		2639b	0·389	84·6	145·5	+ 8·7	0	6	
		2639	0·427	81·1	143·2	+10·3	0	4	125c
		2639	0·452	81·3	141·6	+10·4	0	10	
		2641	0·854	124·4	118·0	−24·3	0	33	
		2641	0·886	123·3	113·9	−25·0	0	12	148c
		2642	0·838	114·0	116·1	−15·6	0	3	132f
		2643a	0·959	80·4	94·2	+11·2	24	246	514c
		2644a	0·999	113·0	84·5	−22·4	0	164	585p
			0·893	85·1	104·9	+ 7·6			380
			0·916	74·1	101·3	+17·5			315
Aug. 27		Centre			(168·5)	(+7·2)	(48)	(743)	(3443)
240·480	CL,AB		0·941	250·9	218·9	−15·2			485
		2638a	0·889	290·3	214·7	+20·6	12	84	353nf
I.		2636	0·421	285·6	176·5	+13·1	0	5	
		2636a	0·383	285·7	174·1	+12·6	17	116	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2639, Aug. 25–Sept. 3. Two very small spots on Aug. 25. A stream on Aug. 26 and 27. The group consists of a cluster of very small dots on Aug. 28. By the succeeding day the group has become much enlarged and forms a stream of which the leading and final spots are *a* and *b*. A still further increase has taken place on Aug. 30. *b* has divided into two large spots, *c* and *d*, by Aug. 31.

Group 2640, Aug. 25–28. Two small spots, measured together on Aug. 25.

Group 2641, Aug. 26–27. Two small spots.

Group 2642, Aug. 26–27. A very small spot.

Group 2643, Aug. 26–Sept. 8. A regular spot, *a*. Small companions are seen near *a* on Aug. 30, 31, and Sept. 1 and 4, and the two succeeding days.

Group 2644, Aug. 27–Sept. 8. A regular spot, *a*. A small companion is seen on Aug. 28 and 29.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.					°	°			
240d.480	CL, AB	2636	0·367	294·0	172·2	+15·3	0	3	
		2640	0·454	208·4	165·0	−16·4	0	15	
I.		2640	0·428	201·9	161·5	−16·2	0	3	
		2639*a*	0·069	69·8	148·3	+ 8·6	0	10	
		2639*b*	0·117	77·1	145·4	+ 8·7	0	6	
		2639	0·139	75·2	144·2	+ 9·1	0	4	
		2643*a*	0·852	81·2	93·1	+11·2	44	275	925*f*
		2644	0·910	117·4	92·1	−21·3	1	17	772*c*
		2644*a*	0·960	115·9	83·2	−22·3	36	248	
			0·897	71·1	87·6	+20·1			278
Aug. 28		Centre			(152·0)	(+7·2)	(110)	(786)	(2813)
241·348	CL, JG		0·987	252·7	219·0	−15·7			494
			0·928	241·8	203·3	−22·8			522
I.			0·770	229·3	180·8	−24·6			202
		2638*a*	0·956	290·0	215·2	+21·2	0	76	512*nf*
		2636*a*	0·551	281·2	174·4	+12·2	15	92	145*c*
		2639*a*	0·143	280·5	149·1	+ 8·6	21	103	
		2639	0·097	282·6	146·5	+ 8·4	4	21	
		2639*b*	0·076	292·3	145·1	+ 8·8	0	15	
		2643*a*	0·736	81·9	93·3	+10·8	58	295	230*c*
		2644	0·818	121·1	92·9	−20·2	0	11	
		2644*a*	0·895	119·1	83·7	−22·0	61	235	855*c*
			0·819	81·5	85·6	+11·1			529
			0·915	72·8	77·6	+12·7			706
Aug. 29		Centre			(141·0)	(+7·2)	(159)	(848)	(4195)
242·417	CL, JG		0·966	294·4	203·1	+25·4			227
			0·858	233·4	176·4	−26·2			206
		2636*a*	0·731	279·5	173·7	+11·8	11	75	190*c*
		2639*a*	0·389	276·7	149·3	+ 9·3	38	224	
		2639	0·365	273·7	147·9	+ 8·0	2	8	
		2639	0·352	280·4	146·9	+10·4	0	6	411*c*
		2639	0·347	276·5	146·7	+ 9·0	0	3	
		2639*b*	0·316	277·7	144·8	+ 9·3	21	123	
		2643*a*	0·550	80·9	92·9	+11·0	56	264	
		2643	0·557	85·0	92·4	+ 8·7	4	16	
		2643	0·581	83·7	90·7	+ 9·5	0	20	334*c*
		2643	0·593	78·5	90·0	+12·6	0	3	
		2644*a*	0·782	126·1	83·5	−22·2	32	175	397*c*
			0·801	72·3	73·1	+18·4			469
Aug. 30		Centre			(126·4)	(+7·2)	(164)	(917)	(2234)
1892.					°	°	°		
243·408	CL, AB		0·895	234·8	168·3	−27·1			497
			0·842	245·3	165·9	−16·3			396
			0·744	282·0	161·6	+13·7			399
		2636	0·882	280·6	175·8	+12·8	0	20	352*c*
		2636*a*	0·862	279·8	173·4	+12·1	9	58	
		2645	0·823	294·9	165·0	+18·4	0	33	246*p*
		2639*a*	0·593	275·0	149·8	+ 8·7	74	351	
		2639	0·593	278·4	149·8	+10·8	0	13	
		2639	0·560	278·9	147·4	+11·0	0	6	
		2639	0·556	274·7	147·2	+ 8·6	0	12	225*c*
		2639*c*	0·523	274·1	145·0	+ 8·3	49	248	
		2639*d*	0·515	278·7	144·4	+10·7	18	115	
		2646	0·142	87·8	105·1	+ 7·4	0	7	
		2643*a*	0·349	77·6	93·1	+11·1	51	223	216*c*
		2643	0·372	84·5	91·4	+ 8·7	0	18	
		2644*a*	0·669	135·7	83·1	−22·3	38	179	154*c*
			0·977	115·8	40·3	−23·2			139
Aug. 31		Centre			(113·3)	(+7·2)	(239)	(1283)	(2624)
244·410	CL, AB		0·919	290·5	167·7	+21·7			465
			0·936	248·3	165·6	−17·3			285
			0·880	281·7	162·4	+13·7			472
			0·924	237·1	160·2	−26·7			619
			0·804	242·6	148·2	−16·9			278
		2636*a*	0·954	280·2	173·5	+11·8	0	39	282*n*
		2639*a*	0·764	275·2	150·2	+ 8·6	67	449	
		2639	0·732	276·3	147·4	+ 9·5	0	11	
		2639*c*	0·700	274·3	144·8	+ 8·2	44	299	972*c*
		2639*d*	0·696	278·0	144·5	+10·7	26	136	
		2647	0·150	297·8	107·8	+11·1	0	3	
		2643*a*	0·134	62·8	93·2	+10·6	43	237	
		2643	0·161	79·7	90·9	+ 8·7	0	3	
		2644*a*	0·567	150·7	82·7	−22·6	33	179	
		2648*a*	0·902	116·0	40·9	−19·6	18	117	838*sf*
		2648	0·930	116·3	36·9	−21·2	0	24	
			0·909	76·3	34·0	+15·4			136
			0·983	64·8	18·6	+26·0			157
Sept. 1		Centre			(100·1)	(+7·2)	(231)	(1497)	(4504)
245·493	CL, JG		0·934	282·4	155·7	+14·1			410
		2639*a*	0·896	275·9	149·9	+ 8·5	45	332	559*c*
M.		2639	0·879	274·7	147·6	+ 7·5	0	67	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2645, Aug. 31. A small spot.
Group 2646, Aug. 31. A very small spot.
Group 2647, Sept. 1. A very small spot.
Group 2648, Sept. 1–11. A large spot, *a*, with a stream of small spots following. *a* alone is seen on Sept. 10 and 11.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
245d.493	CL,JG	2639	0·872	276·3	146·9	+ 9·0	0	49	
		2639	0·868	278·8	146·6	+11·2	0	10	
M.		2639c	0·851	274·8	144·4	+ 7·8	41	312	559c
		2639d	0·846	278·0	144·1	+10·6	9	55	
		2643a	0·136	291·7	93·1	+10·0	40	232	
		2644a	0·505	173·2	82·1	−22·8	27	171	135c
		2648a	0·786	122·0	41·0	−19·5	15	104	
		2648	0·824	123·1	37·9	−22·0	0	11	326c
		2648	0·838	121·0	35·7	−21·0	4	27	
		2649a	0·975	104·3	10·8	−12·2	12	72	
			0·906	129·5	31·2	−31·1			380
			0·974	122·1	15·4	−29·0			257
			0·959	67·2	10·9	+23·8			319
Sept. 2		Centre			(85·8)	(+7·2)	(193)	(1442)	(2386)
246·402	JG,AB		0·921	290·3	141·7	+21·5			411
		2639a	0·970	276·8	150·3	+ 8·3	46	263	
		2639c	0·947	275·8	145·5	+ 7·8	19	341	
		2639	0·943	279·5	145·1	+11·4	0	9	910c
		2639d	0·938	278·2	144·2	+10·3	0	40	
		2643a	0·332	279·5	93·1	+10·0	36	223	
		2644a	0·520	194·8	82·1	−22·8	26	167	186c
		2648a	0·685	130·1	40·0	−20·1	18	126	
		2648	0·687	128·3	39·1	−19·2	0	13	296c
		2648	0·744	128·3	35·0	−21·8	7	31	
		2649a	0·921	106·9	9·5	−12·4	11	80	434f
			0·882	135·0	25·3	−33·9			307
			0·928	116·9	11·1	−21·6			83
			0·891	65·9	10·5	+24·7			447
			0·948	126·2	10·8	−30·9			258
Sept. 3		Centre			(73·8)	(+7·3)	(163)	(1293)	(3332)
247·494	CL,M		0·992	279·3	143·0	+10·1			428
		2643	0·569	285·4	93·7	+14·7	0	5	
		2643a	0·550	277·0	92·8	+ 9·9	30	222	
		2643	0·549	283·9	92·4	+13·7	7	23	
		2644a	0·608	215·2	81·6	−23·0	32	178	221c
		2650	0·359	327·2	71·6	+24·6	0	6	
		2648	0·527	143·2	40·0	−18·0	0	3	
		2648a	0·545	144·8	39·9	−19·5	21	159	248c
		2648	0·616	140·9	34·6	−21·9	4	32	
1892.				°	°	°			
247d.494	CL,M	2649a	0·800	111·2	9·8	−12·1	15	68	
		2649	0·819	111·0	7·9	−12·5	0	11	360c
			0·824	143·9	22·6	−35·9			277
			0·897	132·6	7·6	−32·9			351
			0·862	123·4	7·5	−23·9			162
			0·837	65·5	2·8	+24·4			136
			0·934	112·4	354·4	−17·9			302
			0·929	68·1	350·0	+23·0			125
Sept. 4		Centre			(59·3)	(+7·3)	(109)	(707)	(2610)
248·393	AR,JG		0·940	245·5	112·7	−20·0			419
			0·902	277·2	112·3	+ 9·6			666
I.			0·807	235·6	93·2	−22·1			184
		2643	0·733	281·8	94·8	+13·6	0	5	
		2643	0·732	276·8	94·8	+10·0	0	9	
		2643a	0·713	275·6	93·2	+ 9·1	41	210	534c
		2643	0·707	281·1	92·6	+13·0	10	22	
		2643	0·683	274·0	90·6	+ 7·5	0	3	
		2644a	0·708	225·4	80·7	−23·7	33	160	228c
		2648a	0·470	163·6	39·3	−19·5	25	97	126c
		2648	0·530	156·2	34·1	−21·8	1	5	
		2651	0·834	149·5	14·1	−39·8	0	4	257f
		2649a	0·678	116·5	9·2	−11·8	9	57	
		2649	0·683	118·4	8·4	−13·2	0	2	
		2649	0·688	116·0	8·4	−11·9	0	6	236c
		2649	0·701	116·8	7·6	−12·8	0	4	
		2649	0·696	114·7	7·4	−11·3	0	2	
			0·875	136·1	0·3	−34·2			479
			0·893	115·0	349·1	−18·4			564
Sept. 5		Centre			(47·4)	(+7·3)	(119)	(586)	(3693)
249·345	CL,HA		0·940	277·9	105·6	+ 9·9			736
		2643a	0·842	277·2	92·7	+10·0	24	159	
M.		2643	0·840	281·7	92·5	+13·8	0	10	372c
		2644a	0·811	234·9	80·7	−22·7	29	164	488p
		2648a	0·456	190·7	40·0	−19·3	21	109	
		2648	0·447	187·4	38·4	−18·9	1	4	149c
		2649a	0·527	128·7	10·1	−12·6	6	24	
			0·909	137·6	344·2	−37·7			180
			0·869	113·6	339·0	−16·3			194
			0·938	68·2	324·1	+23·0			370
			0·953	80·8	321·8	+11·0			458
Sept. 6		Centre			(34·9)	(+7·3)	(81)	(470)	(2947)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2649, Sept. 2–8. A single spot, *a*, on Sept. 2 and 3. Small companions are seen following it on Sept. 4 and 5.
Group 2650, Sept. 4. A very small spot.
Group 2651, Sept. 5. A very small faint spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day.)	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
250d·250	HA, AB		0·927	287·9	91·8	+19·3			123
			0·770	290·5	73·0	+20·4			209
I.		2643*a*	0·937	276·9	93·0	+ 9·0	55	216	973*f*
		2644*a*	0·899	238·7	79·9	−24·0	35	136	740*c*
		2648*a*	0·527	211·0	39·6	−19·8	18	105	
		2648	0·455	202·8	33·5	−17·5	4	11	
		2648	0·433	195·9	30·0	−17·2	6	12	
		2649*a*	0·414	145·9	9·2	−12·9	3	9	
		2652	0·554	59·9	351·8	+22·4	1	5	
		2652	0·577	61·9	349·8	+21·9	0	9	
		2652	0·615	60·9	347·2	+23·3	0	12	
		2653	0·976	79·1	304·5	+12·2	0	123	1114*p*
		2653	0·975	75·4	304·4	+15·8	0	10	
			0·746	153·5	359·0	−35·1			234
			0·904	140·0	334·5	−39·1			337
			0·832	119·3	332·8	−19·4			313
			0·877	64·4	321·6	+25·9			173
Sept. 7		Centre			(22·9)	(+7·3)	(122)	(648)	(4216)
251·413	HA, AB		0·890	291·1	70·9	+22·0			304
		2643*a*	0·992	278·8	91·2	+ 9·7	0	115	150*f*
		2644*a*	0·973	243·9	79·2	−23·2	21	133	1428*f*
		2648*a*	0·668	229·6	40·0	−19·5	21	125	
		2648	0·599	228·4	35·3	−16·9	0	6	
		2648	0·547	222·4	30·1	−17·0	2	15	
		2649	0·351	186·5	9·8	−13·0	0	5	
		2652	0·437	49·1	346·5	+23·4	0	5	
		2654	0·650	92·2	327·0	+ 4·1	0	8	
		2653*a*	0·857	80·9	308·0	+11·5	11	111	
		2653	0·890	81·0	304·0	+11·3	0	16	
		2653	0·907	80·2	301·7	+11·9	0	17	823*c*
		2653	0·908	78·4	301·5	+13·6	0	42	
		2653	0·923	77·7	299·4	+14·1	0	3	
			0·777	83·4	316·2	+ 9·7			180
Sept. 8		Centre			(7·5)	(+7·3)	(55)	(601)	(1599)
252·321	HA, AB		0·956	290·8	69·7	+21·9			234
			0·784	223·7	33·7	−28·9			215
I.		2648*a*	0·781	237·6	39·9	−19·6	21	115	175*c*
		2648	0·754	237·1	37·4	−18·8	0	2	
		2655	0·416	163·1	348·4	−16·2	0	20	
		2655	0·407	157·0	346·2	−14·8	0	3	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
252d·321	HA, AB	2655	0·441	153·9	344·0	−16·1	0	20	
		2653	0·717	80·4	309·5	+11·9	0	6	
I.		2653*a*	0·737	80·5	307·8	+11·8	17	129	
		2653	0·763	81·1	305·5	+11·4	8	28	
		2653	0·779	80·7	304·0	+11·8	0	5	819*c*
		2653	0·805	80·6	301·6	+11·8	8	37	
		2653	0·819	77·1	300·2	+14·7	0	81	
		2656	0·939	113·2	290·0	−18·8	0	13	2758*f*
Sept. 9		Centre			(355·6)	(+7·2)	(54)	(459)	(1718)
253·215	AE, JG		0·868	280·6	44·5	+12·8			80
			0·859	236·7	35·2	−23·7			140
M.			0·815	219·4	21·9	−33·4			221
		2648*a*	0·876	243·4	39·5	−19·1	11	85	252*c*
		2655	0·410	194·3	349·7	−16·2	0	10	
		2655	0·422	189·2	347·7	−17·3	0	10	
		2655	0·401	189·9	347·8	−16·0	0	6	
		2655	0·396	193·6	349·2	−15·4	8	51	
		2655	0·382	185·0	345·7	−15·1	0	8	
		2655	0·403	181·2	344·2	−16·5	5	13	
		2655	0·376	182·9	344·8	−14·8	2	15	
		2657	0·321	72·9	325·5	+12·3	0	6	
		2657	0·349	74·2	323·7	+12·3	0	2	
		2658	0·465	87·1	315·9	+ 7·7	0	6	
		2653*a*	0·567	80·8	309·1	+11·2	29	196	
		2653	0·580	77·5	308·3	+13·1	3	18	
		2653	0·597	81·2	306·9	+11·0	2	12	
		2653	0·619	80·9	305·3	+11·3	1	14	
		2653	0·654	75·4	303·0	+15·0	0	4	
		2653	0·644	78·9	300·5	+12·7	0	8	
		2653	0·667	80·8	301·7	+11·5	11	89	
		2653	0·668	76·8	301·7	+14·2	4	45	
		2653	0·695	78·7	299·5	+13·0	0	17	
		2653	0·698	76·4	299·4	+14·6	0	9	
		2656	0·842	122·4	293·7	−22·3	4	8	
		2656	0·845	119·2	292·2	−19·9	0	2	
		2656	0·842	118·0	292·1	−18·9	2	7	179*c*
		2656	0·863	122·4	291·4	−23·2	0	14	
		2656	0·869	121·7	290·5	−23·0	0	2	
		2659	0·949	99·4	273·5	− 6·6	0	34	686*c*
		2659	0·971	98·1	268·8	− 6·0	0	11	
		2659	0·982	98·9	266·0	− 7·3	0	17	
			0·947	116·8	277·7	−22·5			697
Sept. 10		Centre			(343·7)	(+7·2)	(82)	(718)	(2255)

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Group 2652, Sept. 7–8. A cluster of very small spots.
Group 2653, Sept. 7–18. An irregular group. On Sept. 8 the leader, *a*, is a large irregular spot, undergoing continual changes of shape on the succeeding days. The other spots of the group form a stream of small spots following *a*, and diminish until Sept. 17 and 18, when only one follower is left.
Group 2654, Sept. 8. A small spot.
Group 2655, Sept 9–15. A number of small spots in an irregular stream.
Group 2656, Sept. 9–11. A number of small spots in an irregular group. The group has undergone a great increase in area by Sept. 11, especially as regards the leader, *a*.
Group 2657, Sept. 10. Two very small spots.
Group 2658, Sept. 10. A very small spot.
Group 2659, Sept. 10–12. A number of small spots in an irregular stream.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
254d 370	CL, JG		0·889	286·0	31·9	+17·5			77
			0·939	234·5	30·0	−29·7			232
I.			0·868	220·0	12·3	−36·5			488
		2648*a*	0·973	247·8	41·3	−19·6	0	28	227*c*
		2655*a*	0·514	223·8	350·0	−15·0	32	168	
		2655	0·503	218·5	347·5	−16·3	0	16	
		2655	0·508	215·2	346·3	−17·6	0	3	225*c*
		2655	0·488	216·3	345·9	−16·2	0	11	
		2655	0·465	215·3	344·6	−15·3	26	132	
		2660	0·256	356·6	329·4	+21·9	0	4	
		2660	0·280	4·7	327·1	+23·3	0	6	
		2653*a*	0·319	74·7	310·3	+11·7	39	214	
		2653	0·356	72·3	308·2	+13·0	3	28	
		2653	0·356	77·2	307·9	+11·3	5	18	
		2653	0·387	78·3	305·9	+11·2	2	7	
		2653	0·418	76·7	304·0	+12·1	5	20	
		2653	0·441	75·4	302·7	+12·9	0	2	
		2653	0·464	72·7	301·4	+14·3	9	66	
		2653	0·460	77·4	301·3	+12·1	16	62	
		2653	0·495	71·3	299·5	+15·4	0	22	
		2653	0·505	73·3	298·6	+14·5	3	17	
		2656	0·703	131·0	293·9	−21·5	0	8	
		2656	0·688	126·5	293·0	−18·3	0	3	109*c*
		2656	0·750	128·9	289·5	−22·5	0	5	
		2659	0·842	102·5	272·9	− 6·4	10	45	
		2659	0·896	99·8	266·2	− 5·5	0	2	544*c*
		2659	0·907	101·6	265·1	− 7·4	0	41	
		2661	0·925	121·5	267·8	−25·5	0	38	360*c*
		2661	0·951	119·1	262·4	−24·8	0	20	
		2662	0·997	111·9	246·4	−21·0	0	109	237*c*
			0·854	119·0	276·0	−20·1			360
			0·908	63·9	262·9	+26·7			667
			0·956	113·9	260·0	−20·3			64
Sept. 11		Centre			(328·5)	(+7·2)	(150)	(1095)	(3590)
255·434	CL, JG		0·846	247·4	8·2	−14·8			120
			0·908	226·7	7·5	−34·3			352
		2655*a*	0·682	239·4	351·7	−14·6	33	154	
		2655	0·659	235·5	348·7	−15·9	14	120	332*c*
		2655	0·629	232·5	345·7	−16·3	11	96	
		2655	0·604	235·0	345·0	−14·1	8	38	
		2663	0·640	223·9	342·8	−21·0	0	5	
		2664	0·237	290·6	327·5	+11·8	0	4	
		2653*a*	0·099	42·4	310·6	+11·4	37	316	

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1892.				°	°	°			
255d·434	CL, JG	2653	0·152	49·2	307·8	+12·8	0	30	
		2653	0·168	62·9	305·8	+11·5	0	8	
		2653	0·192	65·0	304·3	+11·7	0	10	
		2653	0·217	68·9	302·6	+11·5	0	3	
		2653	0·244	60·8	301·9	+13·9	0	10	
		2653	0·239	65·7	301·7	+12·7	0	14	
		2653	0·242	70·7	301·1	+11·6	7	43	
		2653	0·270	60·7	300·5	+14·6	0	14	
		2653	0·265	68·3	300·0	+12·6	0	8	
		2659	0·675	109·1	274·7	− 7·2	0	18	124*c*
		2659	0·694	108·2	273·0	− 7·1	0	14	
		2661	0·830	128·8	268·4	−26·4	2	29	365*c*
		2661	0·868	124·8	262·6	−25·3	0	11	
		2665	0·774	106·8	266·2	− 8·1	0	10	201*c*
		2662	0·940	116·5	249·7	−21·9	0	15	1138
		2662	0·946	115·3	248·3	−21·1	6	30	
			0·763	61·8	266·3	+26·0			277
			0·887	70·3	251·5	+20·7			165
Sept. 12		Centre			(314·5)	(−21·1)	(118)	(1000)	(3074)
256·492	HA, JG		0·924	295·0	7·7	+25·8			297
			0·915	249·6	2·1	−15·4			178
M.			0·919	235·4	358·1	−27·8			296
			0·932	222·2	353·7	−39·6			264
			0·788	292·1	351·1	+21·8			56
		2655*a*	0·831	245·9	351·2	−15·4	13	127	
		2655	0·802	243·7	347·8	−16·1	9	89	475*c*
		2655	0·761	242·7	343·8	−15·3	0	104	
		2653*a*	0·206	292·8	310·6	+11·7	40	279	
		2653	0·206	302·6	309·7	+13·5	9	29	
		2653	0·158	297·0	307·7	+11·3	15	67	
		2653	0·155	309·7	306·5	+12·8	11	87	
		2653	0·105	323·9	303·1	+12·1	0	4	
		2653	0·109	352·7	300·3	+13·4	0	2	
		2653	0·094	356·6	299·8	+12·6	0	2	
		2653	0·122	2·9	299·1	+14·2	0	3	
		2653	0·087	7·1	298·9	+12·1	1	16	
		2661*a*	0·710	137·5	267·5	−25·4	0	7	77*c*
		2661	0·724	137·4	266·5	−26·1	0	6	
		2662	0·846	120·7	248·4	−21·2	4	14	991*p*
		2662	0·855	119·0	246·9	−20·2	3	43	
		2662	0·873	119·9	245·2	−21·7	0	8	
			0·974	105·7	225·1	−13·4			58
Sept. 13		Centre			(299·5)	(+7·2)	(105)	(887)	(2692)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2660, Sept. 11. Two very small faint spots.
Group 2661, Sept. 11–20. A few very faint small spots, which diminish until Sept. 14, when the group is barely visible. Several fresh spots have appeared by the succeeding day, and the group forms a stream of which *a* is the leader. The following spots diminish, and *a* alone is seen on Sept. 19 and 20.
Group 2662, Sept. 11–20. An irregular group, of which *a*, on Sept. 14, is the largest spot. The shape of the group changes from day to day.
Group 2663, Sept. 12. A very small spot.
Group 2664, Sept. 12. A very small spot.
Group 2665, Sept. 12. A small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
257d.422	CL,AB		0·956	297·7	2·3	+28·5			147
			0·884	292·2	350·7	+23·0			136
			0·879	239·7	343·1	−22·3			341
		2655*a*	0·926	250·6	352·7	−14·9	19	105	
		2655	0·907	249·5	349·7	−15·2	0	81	
		2655	0·887	246·9	346·4	−16·7	0	37	1153*c*
		2655	0·867	249·1	344·6	−14·1	0	35	
		2653*a*	0·390	283·8	310·9	+12·0	53	560	
		2653	0·334	284·6	307·4	+11·6	0	18	
		2653	0·333	288·6	307·0	+12·9	13	51	
		2653	0·217	298·3	299·5	+13·0	4	14	
		2653	0·183	292·6	298·1	+11·1	0	3	
		2666	0·164	358·2	288·5	+16·6	0	7	
		2666	0·172	2·7	287·7	+17·1	2	14	
		2666	0·162	11·1	286·4	+16·3	4	20	
		2667	0·487	152·6	274·6	−18·5	0	3	
		2661	0·634	150·4	267·8	−26·6	0	7	
		2661	0·670	144·8	262·7	−26·6	0	5	
		2662	0·742	128·3	249·5	−21·8	4	16	
		2662*a*	0·757	126·3	247·5	−21·2	8	55	753*f*
		2662	0·768	125·4	246·2	−21·0	0	8	
			0·907	68·5	222·5	+22·5			393
Sept. 14		Centre			(288·2)	(+7·2)	(107)	(1039)	(2923)
258·448	CL,HA		0·921	289·6	342·6	+20·8			328
			0·956	242·4	342·2	−23·7			293
			0·884	242·6	331·2	−20·1			213
			0·934	223·7	330·2	−38·6			185
			0·849	215·8	313·6	−37·9			193
		2655*a*	0·985	252·5	351·9	−15·8	9	119	
		2655	0·976	252·1	349·2	−15·6	0	9	9078*f*
		2653*a*	0·598	279·4	311·5	+11·4	69	439	
		2653	0·551	278·8	308·2	+10·9	1	43	
		2653	0·542	281·2	307·5	+12·1	8	23	
		2653	0·492	284·3	303·9	+13·2	0	2	245*c*
		2653	0·469	281·4	302·6	+11·7	0	4	
		2653	0·424	285·1	299·4	+12·9	0	6	
		2653	0·412	287·2	298·5	+13·5	0	2	
		2666	0·301	301·8	296·1	+16·1	0	4	
		2666	0·257	309·0	286·7	+16·3	0	5	
		2668	0·549	209·3	291·4	−21·6	0	3	
		2668	0·557	207·2	290·7	−22·7	0	3	
		2670	0·391	10·5	270·0	+29·7	0	1	
		2670	0·339	15·1	269·1	+26·2	0	3	
1892.				°	°	°			
258d.448	CL,HA	2667	0·453	180·3	274·8	−19·6	0	3	
		2661*a*	0·539	173·2	270·7	−25·0	0	10	
		2661	0·538	168·8	268·1	−24·6	0	3	
		2661	0·560	169·1	268·0	−26·1	2	13	149*c*
		2661	0·565	167·2	266·7	−26·2	0	10	
		2661	0·582	160·2	262·1	−26·0	0	4	
		2669	0·278	153·2	267·5	− 7·2	0	6	
		2662	0·613	138·7	249·1	−20·9	3	9	
		2662*a*	0·630	136·2	247·0	−20·6	7	48	
		2662	0·647	136·1	246·0	−21·4	0	3	323*c*
		2662	0·640	134·3	245·6	−20·2	3	14	
		2662	0·667	133·9	243·8	−21·3	0	2	
			0·772	130·5	234·6	−24·6			459
			0·873	111·3	217·7	−14·6			340
			0·845	64·3	217·4	+25·5			559
Sept. 15		Centre			(274·7)	(+7·2)	(102)	(791)	(4199)
259·487	CL,JG		0·907	285·1	326·8	+16·7			188
			0·843	279·2	318·9	+11·6			207
			0·852	299·0	318·6	+28·3			86
		2653*a*	0·772	279·4	311·9	+11·8	55	418	
		2653	0·738	280·4	308·8	+12·5	0	8	
		2653	0·735	278·6	308·6	+11·1	7	68	535*c*
		2653	0·716	280·5	307·0	+12·5	3	14	
		2653	0·617	283·0	299·0	+13·5	0	5	
		2669	0·341	224·5	274·9	− 7·1	0	2	
		2669	0·308	214·3	271·0	− 7·7	0	4	
		2669	0·289	210·3	269·4	− 7·4	0	4	
		2661*a*	0·558	200·8	273·5	−24·4	0	5	
		2661	0·550	197·8	271·6	−24·5	0	1	
		2661	0·555	194·1	269·6	−25·4	0	3	
		2661	0·559	190·0	267·2	−26·2	0	11	
		2661	0·544	188·2	265·9	−25·3	0	2	
		2662	0·502	158·5	249·7	−20·8	0	7	
		2662*a*	0·515	155·0	247·6	−20·8	9	36	
		2662	0·526	154·1	246·8	−21·3	0	3	
			0·900	62·4	196·8	+27·8			181
Sept. 16		Centre			(261·0)	(+7·1)	(74)	(591)	(1197)
260·434	CL,AE		0·965	289·6	324·7	+20·7			85
			0·934	296·7	318·3	+27·5			42
		2653*a*	0·891	279·6	312·1	+11·8	78	514	876*c*
		2653	0·851	280·2	307·3	+12·4	0	8	
		2661*a*	0·650	217·7	274·3	−24·5	0	13	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2666, Sept. 14–15. A few small spots irregularly scattered, following Group 2653.
Group 2667, Sept. 14–15. A very small spot *n* of Group 2661.
Group 2668, Sept. 15. Two very small spots.
Group 2669, Sept. 15–16. A faint irregular group of very small spots forming a spiral on Sept. 16.
Group 2670, Sept. 15. Two very small faint spots.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
260d·434	CL, AE	2661	0·634	213·0	270·9	−25·5	0	7	
		2662	0·476	181·8	249·4	−21·2	0	6	
		2662	0·478	177·2	247·1	−21·3	11	32	
		2662	0·504	171·8	244·0	−22·7	0	5	
		2662	0·549	167·7	241·1	−25·2	0	3	
		2671	0·950	86·6	176·5	+ 5·5	3	31	427c
		2672a	0·991	105·5	168·5	−14·3	30	234	
			0·927	116·5	185·8	−21·3			505
			0·968	77·9	172·0	+13·5			494
Sept. 17		Centre			(248·5)	(+7·1)	(122)	(853)	(2429)
261·470	M,JG		0·841	230·1	281·5	−27·8			34
		2653a	0·976	279·5	313·0	+10·8	51	394	1039f
		2653	0·961	278·6	309·5	+10·2	0	92	
		2661a	0·780	229·7	275·6	−24·9	5	12	119n
		2661	0·775	228·9	274·9	−25·2	0	6	
		2662a	0·516	202·3	246·9	−21·5	6	32	
		2662	0·495	203·0	246·6	−20·0	0	5	
		2662	0·491	200·4	245·3	−20·3	1	7	
		2662	0·515	194·9	243·0	−22·7	0	10	
		2671	0·835	87·6	178·0	+ 5·9	9	39	
		2671	0·846	87·9	176·9	+ 5·6	4	20	
		2671	0·877	88·6	173·4	+ 4·7	0	11	485c
		2671	0·921	87·7	167·6	+ 4·9	0	19	
		2672a	0·939	107·6	167·9	−13·8	23	154	447c
		2673	0·990	81·0	152·2	+ 9·9	0	95	479p
		2673a	0·995	75·7	149·0	+14·9	69	690	1059c
			0·890	121·0	178·7	−23·4			135
			0·896	76·1	170·5	+15·6			355
			0·904	66·1	169·7	+24·6			157
Sept. 18		Centre			(234·8)	(+7·1)	(168)	(1586)	(4309)
262·417	HA,JG		0·985	281·1	303·4	+12·1			724
			0·785	253·2	271·6	− 8·5			149
			0·740	297·4	268·5	+24·9			106
		2661a	0·875	237·2	275·9	−24·2	1	36	426c
		2662a	0·599	219·8	246·4	−20·9	0	28	
		2671	0·698	88·3	177·9	+ 6·3	7	74	
		2671	0·723	87·8	175·8	+ 6·5	3	16	464c
		2671	0·755	90·1	173·3	+ 4·6	0	10	
		2671	0·772	88·2	171·6	+ 5·9	0	7	
		2672a	0·855	111·2	167·3	−14·0	31	147	322c
1892.				°	°	°			
262d·417	HA,JG	2673	0·917	82·0	155·2	+10·2	6	58	
		2673	0·936	83·2	152·4	+ 8·9	0	19	1818c
		2673a	0·942	76·7	150·9	+14·9	32	451	
		2673	0·947	81·2	150·4	+10·6	17	134	
			0·841	73·6	164·7	+17·6			369
			0·917	119·2	161·9	−23·2			154
Sept. 19		Centre			(222·3)	(+7·1)	(97)	(980)	(4532)
263·369	JG,AB		0·900	257·4	272·0	− 8·1			595
			0·854	296·6	267·9	+26·3			360
I.			0·888	234·2	263·7	−27·3			154
		2661a	0·959	242·4	277·8	−23·9	0	21	353c
		2662	0·728	235·7	249·0	−18·8	0	6	
		2662	0·720	233·4	247·5	−19·9	3	10	
		2662	0·734	228·5	246·4	−23·5	0	5	416c
		2662	0·720	230·2	246·1	−21·8	0	8	
		2662	0·713	228·2	244·7	−22·6	0	5	
		2671	0·509	89·4	179·0	+ 6·3	6	42	
		2671	0·521	91·1	178·3	+ 5·4	5	27	
		2671	0·542	89·7	176·8	+ 6·1	5	13	
		2671	0·572	89·7	174·8	+ 5·9	1	12	
		2671	0·598	92·1	173·0	+ 4·4	8	23	
		2671	0·598	88·7	172·9	+ 6·4	2	6	
		2671	0·615	90·5	171·7	+ 5·2	0	6	
		2672	0·711	119·0	169·8	−14·8	0	3	
		2672a	0·740	117·1	167·0	−14·6	30	158	314c
		2673	0·804	82·5	155·8	+10·2	8	30	
		2673	0·818	84·0	154·5	+ 8·9	0	6	
		2673	0·828	81·6	153·4	+10·9	0	22	
		2673	0·843	85·6	152·0	+ 7·5	0	4	
		2673a	0·849	77·0	151·1	+14·7	117	371	
		2673	0·852	72·0	151·0	+19·0	0	4	1611c
		2673	0·851	81·5	150·9	+10·9	5	26	
		2673	0·868	82·6	149·0	+ 9·9	28	171	
		2673	0·869	74·7	148·9	+16·7	0	30	
		2673	0·871	79·5	148·6	+12·5	0	30	
			0·909	124·6	152·5	−27·4			119
			0·888	112·4	151·1	−16·2			120
Sept. 20		Centre			(209·7)	(+7·0)	(218)	(1039)	(4042)
264·219	CL,HA		0·930	260·6	265·6	− 6·0			321
I.			0·911	296·2	264·5	+26·8			442

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Faculæ unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2671, Sept. 17–24. A number of small spots in a curved stream. The stream has become straight and has divided into three distinct clusters by Sept. 22. These come together and become ill-defined in appearance on the succeeding days.
Group 2672, Sept. 17–29. A large regular spot, *a*, with a small companion on Sept. 20, 22, 25 and 28.
Group 2673, Sept. 18–29. A large irregular group. The principal spot, *a*, has broken up by Sept. 21, and its foremost division, *b*, forms the leader of a straggling stream. The following spots diminish in size, and only *b*, with one small companion, remains by Sept. 29.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
264d.219	CL,HA		0·939	240·2	262·2	−24·8			312
			0·793	289·7	250·8	+19·9			182
I.			0·823	238·3	246·9	−21·0			629
			0·760	226·0	234·0	−20·1			453
		2671	0·327	91·6	179·4	+ 6·1	14	51	
		2671	0·369	91·9	176·8	+ 5·8	0	13	
		2671	0·400	90·2	174·9	+ 6·4	2	10	276c
		2671	0·422	94·7	173·7	+ 4·4	0	20	
		2672a	0·617	124·7	167·0	−14·5	25	128	231c
		2673	0·692	81·3	154·5	+11·1	0	2	
		2673	0·665	82·2	156·6	+10·4	0	9	
		2673b	0·702	75·3	153·9	+15·3	29	136	
		2673	0·716	71·8	153·1	+17·8	0	6	
		2673	0·715	77·2	152·7	+14·0	3	38	
		2673	0·735	76·6	151·1	+14·6	52	297	1722c
		2673	0·737	86·2	150·8	+ 7·5	0	8	
		2673	0·748	82·5	149·8	+10·3	18	129	
		2673	0·756	73·1	149·4	+17·3	2	19	
		2673	0·760	76·3	148·8	+15·0	5	55	
			0·884	137·0	150·7	−35·7			153
			0·865	126·0	147·4	−26·2			231
			0·825	113·3	147·1	−14·7			289
			0·868	62·8	138·7	+27·0			163
Sept. 21		Centre			(198·5)	(+7·0)	(150)	(921)	(5404)
265·203	CL,AB		0·899	239·9	242·5	−23·2			1651
		2671	0·088	101·6	180·0	+ 6·0	2	15	
I.		2671	0·091	90·0	179·7	+ 7·0	3	6	
		2671	0·129	107·8	177·9	+ 4·7	5	17	
		2671	0·140	101·0	177·0	+ 5·5	11	37	
		2671	0·151	111·0	176·8	+ 3·9	0	5	
		2671	0·193	104·7	174·2	+ 4·1	5	40	
		2672a	0·479	138·7	165·9	−14·4	25	131	
		2672	0·469	135·5	165·3	−12·9	0	4	
		2673	0·512	70·9	154·9	+15·7	0	7	
		2673b	0·520	73·5	154·0	+14·5	29	135	
		2673	0·518	81·2	153·7	+10·5	0	8	
		2673	0·547	68·1	152·8	+17·7	0	5	
		2673	0·537	76·0	152·6	+14·0	5	34	489c
		2673	0·570	74·6	150·5	+14·5	35	199	
		2673	0·579	82·1	149·4	+10·3	18	108	
		2673	0·596	73·9	148·7	+15·2	5	106	
			0·937	77·9	114·6	+13·8			479
Sept. 22		Centre			(184·9)	(+7·0)	(143)	(857)	(2619)

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
266d.525	AR,JG		0·960	240·8	236·1	−25·5			975
		2674	0·669	294·2	208·8	+21·2	0	3	130c
		2671	0·232	270·8	181·6	+ 7·0	0	9	
		2671	0·188	263·8	178·9	+ 5·6	4	19	
		2671	0·138	244·1	175·2	+ 3·4	0	6	
		2671	0·114	251·6	174·3	+ 4·8	0	10	
		2671	0·117	240·8	173·9	+ 3·6	0	7	
		2671	0·085	258·8	172·9	+ 6·0	0	1	
		2672a	0·371	178·2	167·4	−14·8	12	120	
		2673b	0·238	61·1	155·8	+13·4	13	81	
		2673	0·256	67·7	154·1	+12·3	0	30	
		2673	0·293	52·3	154·1	+17·0	0	3	
		2673	0·245	81·3	154·0	+ 8·9	0	10	
		2673	0·271	61·4	154·0	+14·1	2	60	
		2673	0·294	55·3	153·6	+16·3	0	8	
		2673	0·326	57·5	151·5	+16·7	0	11	
		2673	0·295	79·7	151·1	+ 9·6	5	35	
		2673	0·305	70·9	151·0	+12·4	4	15	
		2673	0·322	65·8	150·5	+14·1	25	208	
		2673	0·314	82·7	149·8	+ 8·8	0	23	
		2675a	0·967	81·1	92·2	+10·3	33	124	423c
			0·789	81·0	115·7	+11·3			136
			0·926	73·7	99·5	+17·7			207
Sept. 23		Centre			(168·1)	(+6·9)	(98)	(783)	(1871)
267·208	CL,JG		0·977	239·3	230·9	−28·0			195
		2671	0·398	271·8	182·5	+ 7·0	1	8	
M.		2671	0·352	268·9	179·6	+ 6·1	1	9	
		2671	0·335	265·5	178·5	+ 5·0	0	1	
		2671	0·276	264·7	174·9	+ 5·2	0	18	
		2672a	0·394	201·2	167·4	−14·6	15	102	76c
		2673b	0·121	22·3	156·3	+13·3	13	102	
		2673	0·128	37·3	154·5	+12·7	0	10	
		2673	0·155	30·9	154·3	+14·5	10	80	
		2673	0·094	68·0	154·0	+ 8·9	0	7	
		2673	0·191	27·1	153·8	+16·6	2	10	
		2673	0·190	37·8	152·1	+15·4	1	4	
		2673	0·218	35·9	151·4	+17·0	0	3	
		2673	0·150	67·2	151·0	+10·1	3	17	
		2673	0·166	56·3	150·9	+12·1	6	27	
		2673	0·187	49·2	150·7	+13·8	22	128	
		2673	0·162	76·5	149·9	+ 9·0	0	5	
		2673	0·222	47·7	149·2	+15·4	0	34	
		2673	0·271	37·5	149·0	+19·2	0	1	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2674, Sept. 23. A cluster of very small faint spots measured as one.
Group 2675, Sept. 23–Oct. 5. A regular spot, *a*, seen alone until Sept. 29. On that date several fresh spots, mostly small, are seen to the *n* of *a*, and persist until Oct. 4.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
267d·208	CL,JG	2676*a*	0·672	116·1	121·1	−11·8	0	7	
		2676	0·695	116·7	119·6	−12·8	0	3	88*c*
M.		2677	0·696	114·6	118·9	−11·5	0	4	
		2675*a*	0·918	81·6	91·8	+10·4	20	145	479*c*
			0·864	75·0	98·8	+16·5			253
			0·947	115·9	92·7	−21·8			245
Sept. 24		Centre			(159·0)	(+6·9)	(94)	(725)	(1336)
268·194	CL,JG		0·883	293·6	208·1	+24·0			266
		2672*a*	0·511	224·2	167·6	−15·0	19	101	
M.		2672	0·509	221·3	166·4	−15·9	0	2	140*c*
		2673*b*	0·225	297·5	157·7	+12·7	15	87	
		2673	0·236	307·3	157·2	+15·0	0	1	
		2673	0·213	302·3	156·6	+13·3	0	5	
		2673	0·214	308·4	155·9	+14·4	1	7	
		2673	0·195	308·6	155·0	+13·8	10	38	
		2673	0·145	286·1	154·1	+ 9·2	0	7	
		2673	0·189	315·2	153·9	+14·5	0	15	
		2673	0·189	326·8	152·1	+15·9	0	14	
		2673	0·246	336·7	151·9	+19·9	0	3	
		2673	0·096	285·5	151·3	+ 8·3	0	2	
		2673	0·103	299·2	151·2	+ 9·8	2	6	
		2673	0·123	313·7	151·2	+11·7	5	20	
		2673	0·147	327·1	150·7	+14·0	0	43	
		2673	0·083	291·6	150·5	+ 8·6	0	5	
		2673	0·224	343·7	149·8	+19·2	0	3	
		2673	0·173	339·5	149·6	+16·2	0	3	
		2673	0·113	329·9	149·3	+12·5	0	27	
		2673	0·059	287·9	149·2	+ 7·9	0	1	
		2673	0·145	338·6	149·1	+14·7	0	2	
		2676*a*	0·498	128·9	122·8	−11·8	14	68	
		2676	0·546	124·9	118·8	−12·0	4	25	192*c*
		2676	0·556	126·2	118·7	−13·0	0	5	
		2675*a*	0·810	81·8	91·5	+10·7	18	146	324*c*
			0·869	74·6	85·2	+17·3			41
			0·931	117·7	82·9	−22·7			327
			0·946	90·5	75·1	+ 1·8			78
			0·956	69·4	71·9	+21·7			233
Sept. 25		Centre			(146·0)	(+6·9)	(88)	(636)	(1601)
269·464	CL,HA		0·902	296·4	193·8	+26·7			169
			0·875	234·5	181·8	−26·4			223
		2677	0·940	250·2	196·0	−16·0	0	26	248*c*
		2678	0·801	272·3	182·6	+ 5·9	0	13	225*f*
1892.				°	°	°			
269d·464	CL,HA	2672*a*	0·697	239·1	167·5	−15·6	14	82	252*c*
		2673*b*	0·502	280·9	159·4	+11·4	13	74	
		2673	0·503	284·1	159·2	+13·0	0	5	
		2673	0·483	283·2	157·9	+12·3	0	9	
		2673	0·453	286·7	155·7	+13·6	5	28	
		2673	0·382	282·8	151·5	+11·2	2	9	
		2673	0·375	288·9	150·6	+13·3	2	45	
		2673	0·349	284·5	149·6	+11·4	0	15	
		2676*a*	0·338	164·1	123·9	−12·1	5	19	
		2676	0·372	150·1	118·4	−12·1	0	10	
		2675*a*	0·611	80·9	91·5	+11·0	27	140	
		2679*a*	0·857	122·1	77·4	−23·0	5	44	
		2679*b*	0·878	121·1	74·7	−23·1	2	20	261*c*
		2680	0·993	112·9	49·8	−21·6	0	150	
		2680*a*	0·995	111·0	48·1	−20·0	0	296	443*f*
Sept. 26		Centre			(129·3)	(+6·8)	(75)	(985)	(1821)
270·240	M, JG		0·977	251·1	193·7	−16·7			163
			0·861	272·1	178·6	+ 5·3			430
I.			0·910	240·4	178·3	−23·3			269
			0·803	282·9	172·7	+14·4			386
		2672*a*	0·800	244·5	167·4	−15·7	16	87	226*c*
		2673	0·652	281·5	159·7	+12·7	0	3	
		2673*b*	0·646	279·8	159·3	+11·5	14	96	305*c*
		2673	0·605	283·6	156·1	+13·7	3	43	
		2673	0·540	283·2	151·5	+12·8	0	7	
		2673	0·538	280·2	151·5	+11·2	1	5	
		2673	0·520	283·8	150·1	+13·0	0	2	
		2673	0·507	280·9	149·4	+11·4	2	9	
		2673	0·404	277·9	142·8	+ 9·4	0	3	
		2676*a*	0·340	195·3	124·2	−12·3	7	18	
		2676	0·323	178·0	118·3	−12·0	0	6	
		2675*a*	0·473	79·3	90·9	+11·0	26	131	163*c*
		2679*a*	0·772	127·9	77·6	−23·2	21	114	
		2679*b*	0·805	125·6	73·8	−23·2	36	228	606*c*
		2681*a*	0·949	82·8	46·8	+ 9·0	9	43	
		2681	0·962	78·3	44·0	+13·1	0	78	
		2681	0·964	80·0	43·6	+11·4	2	33	669*c*
		2681*b*	0·981	77·7	39·2	+13·4	22	271	
		2680*a*	0·975	113·3	45·8	−20·9	59	664	1132*c*
Sept. 27		Centre			(119·0)	(+6·8)	(218)	(1841)	(4349)
271·417	CL, JG		0·949	272·9	175·3	+ 4·9			456
			0·908	284·1	169·3	+15·6			407

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2676, Sept. 24–29. Several very small faint spots in an irregular group on Sept. 24. The group has much increased in size by Sept. 25, and forms a stream, *a*, the largest spot, being the leader. The group has diminished again by Sept. 26, and *a* remains alone by Sept. 28.

Group 2677, Sept. 26. A small spot.

Group 2678, Sept. 26. A small spot.

Group 2679, Sept. 26–Oct. 6. Two small spots, *a* and *b*, on Sept. 26, of which *a* leads. Both spots have greatly increased in size by Sept. 27 and 28, and have become large compound spots, *a* being still the larger. *a* has condensed by the succeeding day into a large simple spot, almost regular in character with a well-defined crescent-shaped nucleus. Numerous attendant spots are seen near *a* and *b*, principally between them.

Group 2680, Sept. 26–Oct. 7. A very large but irregular group. There is one well-defined nucleus, *a*, from which issue penumbral processes which continually change from day to day. The processes have much diminished by Oct. 3, and *a* remains as a regular spot, with a few small companions.

Group 2681, Sept. 27–Oct. 9. A large regular spot, *b*, preceded by a stream of small spots inclined in a S.W. direction, whose leader is *a*. The preceding spots have disappeared by Oct. 3, but two large irregular spots are seen following *b*. *a* has disappeared by Oct. 4, and *b* alone remains on Oct. 8 and 9.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
271d.417	CL,JG		0·887	293·2	166·1	+23·6			132
			0·845	237·1	153·8	−23·1			115
		2672	0·930	251·1	168·8	−14·8	0	7	
		2672*a*	0·924	249·8	167·5	−15·7	0	37	399*c*
		2673*b*	0·837	280·0	160·7	+12·0	9	89	
		2673	0·827	281·8	159·7	+13·5	0	20	
		2673	0·814	279·3	158·3	+11·4	3	15	714*c*
		2673	0·790	281·9	156·0	+13·5	8	30	
		2673	0·746	281·0	151·9	+12·7	0	6	
		2673	0·742	278·7	151·6	+11·0	0	9	
		2676*a*	0·481	226·8	124·5	−13·0	3	12	
		2675*a*	0·221	69·7	91·4	+11·0	17	139	
		2679*a*	0·631	140·5	77·7	−23·0	69	500	
		2679	0·642	137·0	75·4	−22·0	0	7	415*c*
		2679*b*	0·678	135·1	72·3	−22·9	36	293	
		2681*a*	0·818	83·9	48·3	+ 8·8	7	19	400*c*
		2681	0·845	80·5	45·4	+11·6	4	11	
		2681*b*	0·889	77·9	40·2	+13·8	32	201	638*c*
		2680	0·860	118·6	50·0	−20·4	1	15	
		2680*a*	0·883	117·4	47·0	−20·4	34	496	1080
			0·952	112·4	35·2	−18·9			103
Sept. 28		Centre			(103·5)	(+6·7)	(223)	(1909)	(4859)
272d.412	HA,JG		0·966	289·0	166·7	+20·1			311
			0·829	290·6	146·3	+20·8			723
		2672*a*	0·984	251·9	167·3	−16·4	0	14	361*c*
		2673*b*	0·940	279·7	161·0	+11·4	13	57	
		2673	0·933	280·6	159·9	+12·3	0	35	943*f*
		2676*a*	0·634	239·9	125·4	−13·0	2	6	
		2682*a*	0·460	185·0	92·8	−20·4	9	21	
		2682	0·463	179·1	90·0	−20·8	3	12	
		2675	0·116	326·6	94·1	+12·3	12	42	
		2675	0·123	341·0	92·8	+13·4	0	2	
		2675	0·124	351·3	91·5	+13·7	2	14	
		2675*a*	0·073	347·3	91·3	+10·7	22	118	175*c*
		2675	0·112	2·4	90·1	+13·1	3	10	
		2679*a*	0·526	160·8	79·6	−23·2	60	312	
		2679	0·530	155·3	76·6	−22·2	0	4	
		2679	0·550	151·3	74·9	−22·3	3	12	
		2679	0·559	152·7	74·3	−23·2	5	28	363*c*
		2679	0·535	150·4	74·0	−21·2	0	3	
		2679*b*	0·579	149·1	71·6	−23·4	28	365	
		2681*a*	0·654	85·3	49·4	+ 8·2	8	16	
		2681	0·694	85·6	46·3	+ 7·9	0	2	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
272d.421	HA,JG	2681	0·709	80·4	45·1	+11·5	0	3	
		2681	0·738	80·2	42·6	+11·7	0	3	686*c*
		2681*b*	0·760	77·8	40·7	+13·6	22	145	
		2680	0·770	126·4	48·5	−22·2	0	12	
		2680	0·755	121·6	47·9	−18·4	6	31	
		2680*a*	0·783	123·7	46·3	−20·9	30	278	751*c*
		2680	0·814	123·3	43·4	−22·0	0	11	
		2683*a*	0·897	125·7	35·1	−27·9	12	47	
		2683	0·903	124·7	33·9	−27·3	0	9	386*s*
		2683	0·909	123·8	32·7	−26·9	0	15	
			0·940	117·2	25·6	−22·7			410
			0·990	73·5	7·2	+17·2			298
Sept. 29		Centre			(90·4)	(+6·7)	(240)	(1627)	(5407)
273·463	CL,M		0·941	282·6	147·5	+14·1			1495
			0·927	240·5	138·6	−24·1			330
		2675	0·328	285·3	95·3	+11·2	7	51	
		2675	0·306	284·6	94·1	+10·7	0	15	
		2675	0·301	288·4	93·5	+11·8	0	9	
		2675*a*	0·264	285·2	91·5	+10·3	24	136	
		2675	0·267	296·2	90·8	+13·2	5	48	
		2682*a*	0·530	211·2	93·6	−20·6	8	32	
		2682	0·500	203·7	89·0	−20·7	0	1	
		2682	0·522	202·0	88·8	−22·4	3	11	
		2679*a*	0·500	186·2	79·9	−23·1	66	325	
		2679	0·496	181·3	77·3	−23·0	0	6	
		2679	0·498	176·1	74·5	−23·1	6	37	
		2679	0·498	173·1	72·9	−22·9	0	13	
		2679*b*	0·511	169·5	70·8	−23·5	51	282	
		2679	0·492	166·2	69·4	−21·9	0	6	
		2681*a*	0·442	84·4	50·3	+ 8·4	3	12	
		2681	0·533	81·7	44·4	+10·0	0	4	
		2681	0·554	77·9	43·1	+12·2	0	8	198*c*
		2681	0·570	78·7	41·9	+11·9	0	7	
		2681*b*	0·586	75·6	41·0	+13·7	26	168	
		2680	0·607	131·5	48·2	−17·8	0	13	
		2680	0·626	130·8	46·8	−18·4	0	5	
		2680*a*	0·655	132·8	45·8	−20·7	21	288	415*c*
		2680	0·686	134·6	44·6	−23·2	3	23	
		2683*a*	0·780	132·2	36·5	−26·6	13	70	
		2683	0·820	129·9	31·8	−27·1	5	29	411*c*
			0·929	108·5	11·3	−14·4			203
			0·945	75·4	4·9	+15·9			388
Sept. 30		Centre			(76·6)	(+6·6)	(241)	(1599)	(3440)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2682, Sept. 29–Oct. 2. Several small spots in a short stream, of which *a* is the leader, preceding Group 2679.
Group 2683, Sept. 29–Oct. 4. Several small spots, of which *a* is the leader, in a short stream.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
274d·192	CL,HA		0·961	286·0	141·9	+17·2			363
			0·854	302·0	123·9	+30·5			116
I.			0·840	250·6	120·9	−12·4			232
			0·762	282·2	116·7	+13·6			330
		2675	0·454	281·7	93·7	+11·2	3	29	
		2675	0·430	286·9	91·8	+13·2	0	5	
		2675*a*	0·416	281·1	91·3	+10·6	22	119	231*c*
		2675	0·418	286·1	91·1	+12·7	0	4	
		2675	0·410	288·4	90·4	+13·5	8	42	
		2682*a*	0·622	224·9	94·7	−20·2	3	15	82*c*
		2682	0·597	217·5	89·9	−22·2	1	8	58*c*
		2679*a*	0·539	203·7	80·5	−23·0	66	301	
		2679	0·521	200·4	78·2	−22·7	0	18	
		2679	0·506	194·7	74·9	−22·7	6	38	
		2679	0·517	191·3	73·2	−23·8	1	20	
		2679*b*	0·502	188·2	71·3	−23·1	18	123	464*c*
		2679	0·484	185·5	69·8	−22·1	3	12	
		2679	0·529	185·0	69·8	−25·0	4	66	
		2679	0·504	184·6	69·4	−23·5	0	7	
		2679	0·481	181·2	67·5	−22·0	12	39	
		2681*a*	0·285	84·7	50·3	+ 7·8	2	6	
		2681	0·347	87·8	46·1	+13·9	0	4	
		2681	0·383	82·7	44·4	+ 8·9	0	2	
		2681	0·387	78·5	44·3	+10·5	0	4	
		2681*b*	0·449	74·3	40·7	+12·9	30	157	
		2681	0·576	73·3	32·2	+15·0	0	3	
		2680	0·518	144·7	48·6	−18·7	3	11	
		2680	0·571	148·1	47·9	−22·7	0	4	342*c*
		2680*a*	0·572	144·5	46·1	−21·5	31	371	
		2683	0·711	140·7	36·5	−27·7	11	46	264*c*
		2683	0·752	137·9	32·0	−28·5	7	20	
			0·909	126·4	10·2	−29·2			224
			0·878	113·0	9·6	−16·6			160
			0·881	75·4	4·7	+16·0			364
			0·957	107·4	356·5	−14·5			366
Oct. 1		Centre			(66·9)	(+6·6)	(231)	(1474)	(3596)
275·193	CL,HA		0·936	251·9	120·2	−14·4			162
			0·878	279·6	115·6	+11·5			428
I.			0·718	284·9	99·5	+15·2			166
		2675	0·673	279·2	96·1	+11·0	4	25	
		2675	0·648	277·7	94·2	+ 9·9	0	17	
		2675*a*	0·612	278·4	91·5	+10·3	25	126	376*p*
		2675	0·608	283·7	91·0	+13·5	1	14	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
275d·193	CL,HA	2682*a*	0·758	236·2	95·7	−20·1	0	8	244*s f*
		2679*a*	0·642	220·3	80·5	−23·5	63	293	229*c*
I.		2679	0·607	213·6	75·2	−24·3	0	6	
		2679	0·585	211·7	73·2	−23·7	1	7	
		2679	0·586	211·0	72·9	−23·9	0	7	
		2679	0·561	210·2	71·4	−22·7	5	19	365*c*
		2679*b*	0·576	208·3	71·1	−24·2	11	64	
		2679	0·548	208·2	69·9	−22·5	4	34	
		2679	0·585	205·4	69·8	−25·5	0	14	
		2681*a*	0·059	72·1	50·5	+ 7·5	0	3	
		2681	0·155	74·4	45·1	+ 8·8	1	18	
		2681	0·170	66·6	44·6	+10·3	4	26	237*c*
		2681	0·199	62·2	43·4	+11·7	0	4	
		2681*b*	0·241	63·8	40·7	+12·4	29	147	
		2681	0·384	67·9	32·2	+14·4	0	3	
		2680	0·430	172·3	50·2	−18·7	0	4	
		2680	0·456	168·4	48·1	−19·9	4	58	
		2680*a*	0·506	164·7	45·4	−22·7	22	289	291*c*
		2680	0·516	159·9	42·7	−22·5	0	3	
		2683*a*	0·624	155·1	36·4	−28·1	6	18	127*c*
		2683	0·655	151·3	32·7	−28·9	0	11	
		2684*a*	0·607	135·2	26·8	−19·6	0	7	66*c*
		2684	0·626	133·5	24·9	−19·8	0	3	
		2685*a*	0·775	75·0	2·9	+15·7	3	31	353*c*
		2686	0·839	113·1	0·7	−15·3	0	6	162*c*
			0·611	118·2	20·5	−11·3			191
			0·811	137·4	13·7	+31·6			220
			0·874	128·1	2·2	−28·7			147
			0·936	137·3	357·9	−40·0			62
			0·930	118·0	350·7	−23·0			533
			0·932	107·4	347·7	−13·6			383
Oct. 2		Centre			(53·7)	(+6·5)	(183)	(1265)	(4742)
276·396	CL,JG		0·888	284·5	101·0	+15·9			164
			0·861	240·8	91·3	−21·0			299
		2675	0·844	278·1	95·8	+10·3	0	9	
		2675	0·828	276·7	94·1	+ 9·2	0	12	235*c*
		2675*a*	0·801	277·1	91·4	+ 9·6	18	111	
		2679*a*	0·780	232·4	80·2	−23·6	41	280	215*c*
		2679	0·738	229·0	75·3	−23·8	5	37	
		2679	0·731	227·6	74·0	−24·2	0	4	
		2679*b*	0·715	227·2	72·7	−23·7	7	106	501*c*
		2679	0·688	227·8	71·1	−22·1	0	5	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2684, Oct. 2–9. A few very small faint spots on Oct. 2. The group is not visible on Oct. 3. It has become a long scattered stream of small spots by Oct. 5, of which the leading spot, *a*, has become much larger by the succeeding day. The following spots diminish and disappear, and on Oct. 9 *a* alone is seen.
Group 2685, Oct. 2–12. One small spot, *a*, on Oct. 2. There has been a great outburst, and there are three principal spots, *a*, *b*, and *c*, on the succeeding day *a* is the largest of the three and lies between the other two; *b* leads. A process is seen on the following side of *a* on Oct. 4, which by Oct. 5 has become a distinct spot *d*. *a* and *b* approach each other rapidly, and ultimately merge. They are measured as one spot, *e*, after Oct. 6. A spot, *f*, has broken off from *e* by Oct. 7, but *e* and *f* are subsequently measured as one spot *g*. *d* alone remains by Oct. 12.
Group 2686, Oct. 2. A very small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
276d.396		2679	0·695	223·9	69·7	−24·5	6	33	
		2679	0·684	225·3	69·7	−23·2	0	10	
		2679	0·671	226·0	69·2	−22·2	14	60	
		2681	0·151	299·0	45·6	+10·6	0	13	
		2681*b*	0·119	330·1	41·4	+12·4	16	132	
		2681	0·126	11·8	36·4	+13·5	4	24	
		2681	0·142	14·1	35·8	+14·4	0	7	
		2681	0·161	33·3	32·7	+14·2	6	33	
		2680	0·471	204·0	49·5	−19·0	0	3	
		2680	0·502	200·2	48·6	−21·6	0	2	
		2680	0·470	201·2	48·2	−19·5	0	11	299*c*
		2680	0·489	198·4	47·4	−21·1	0	2	
		2680*a*	0·487	194·8	45·6	−21·5	15	109	
		2680	0·504	191·3	44·0	−23·0	4	25	
		2683*a*	0·564	177·1	36·1	−27·7	0	8	
		2685*b*	0·493	70·5	9·2	+15·2	22	108	
		2685	0·512	74·3	7·6	+13·5	0	2	
		2685	0·534	74·2	6·1	+13·9	5	23	
		2685	0·545	70·8	5·7	+15·8	5	12	
		2685*a*	0·585	73·8	2·5	+14·7	36	230	406*c*
		2685	0·616	74·5	0·2	+14·6	0	8	
		2685	0·616	75·2	0·1	+14·2	0	6	
		2685	0·632	76·1	358·9	+13·8	0	6	
		2685*c*	0·636	72·1	358·9	+16·4	8	49	
			0·850	138·1	354·4	−34·5			62
			0·866	118·7	343·7	−20·8			561
			0·980	109·1	322·3	−17·2			852
			0·974	77·9	320·1	+13·2			1014
Oct. 3		Centre			(37·9)	(+6·5)	(212)	(1480)	(4608)
277·417	CL,JG		0·931	272·6	93·1	+ 4·8			96
			0·906	286·8	89·9	+17·9			77
			0·916	244·6	86·1	−20·2			126
		2675	0·947	279·0	96·2	+10·6	0	7	568*c*
		2675*a*	0·920	277·6	91·8	+ 9·5	17	95	
		2679*a*	0·885	238·9	80·0	−23·7	47	271	
		2679	0·859	238·4	76·8	−22·9	9	55	
		2679	0·831	237·2	73·4	−22·6	0	12	
		2679	0·825	234·1	71·6	−24·7	11	39	740*c*
		2679	0·798	236·0	69·8	−22·0	9	43	
		2679	0·808	232·9	69·4	−24·7	17	55	
		2679	0·793	234·9	68·9	−22·6	0	5	
		2681	0·467	273·0	52·3	+ 7·1	0	11	
		2681	0·457	272·3	51·6	+ 6·7	0	3	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
277d.417	CL,JG	2681	0·443	271·7	50·7	+ 6·5	2	9	
		2681*b*	0·309	289·5	41·6	+12·0	17	125	
		2681	0·252	298·2	37·5	+13·1	13	53	
		2681	0·203	314·1	33·0	+14·4	12	80	
		2680	0·607	226·2	51·9	−19·1	0	5	
		2680	0·608	223·1	50·6	−20·6	0	10	
		2680	0·613	220·4	49·7	−22·0	0	4	280*c*
		2680*a*	0·576	216·2	45·8	−21·7	12	93	
		2680	0·579	212·7	44·3	−23·5	1	8	
		2680	0·548	215·2	44·0	−20·5	0	5	
		2683*a*	0·594	197·5	36·0	−28·1	0	10	
		2684*a*	0·468	185·9	27·3	−21·2	1	9	
		2684	0·450	185·4	27·0	−20·1	0	3	
		2684	0·474	184·9	26·9	−21·7	0	5	
		2684	0·449	179·8	24·3	−20·1	0	2	
		2687	0·385	156·9	15·5	−14·3	5	22	
		2687	0·430	149·3	11·3	−15·4	4	19	
		2685*b*	0·287	58·2	9·8	+14·9	16	109	154*c*
		2685	0·308	61·9	8·2	+14·5	0	7	
		2685	0·343	60·7	6·4	+15·7	0	2	243*c*
		2685*a*	0·375	66·9	3·6	+14·4	49	411	
		2685	0·436	71·9	359·3	+13·5	3	18	202*c*
		2685*c*	0·469	65·5	358·0	+17·0	22	159	
		2688	0·765	128·3	343·7	−23·5	0	5	359*s f*
		2689	0·886	81·4	321·6	+10·6	4	15	1778*n*
		2689	0·910	81·2	318·4	+10·7	0	7	
			0·890	141·4	338·3	−39·7			44
			0·909	112·4	322·9	−17·3			962
Oct. 4		Centre			(24·4)	(+6·4)	(271)	(1791)	(5629)
278·480	CL,M		0·828	293·1	68·0	+22·7			293
		2675*a*	0·980	278·6	91·8	+ 9·7	14	62	367*c*
I.		2679*a*	0·955	242·6	80·2	−23·7	62	245	
		2679	0·937	243·1	77·1	−22·5	11	62	
		2679	0·917	240·4	73·1	−23·8	0	66	1088*c*
		2679	0·892	241·5	70·0	−21·8	5	35	
		2679	0·898	238·1	69·7	−25·0	19	92	
		2681	0·656	274·1	53·7	+ 7·5	0	4	
		2681	0·625	272·5	51·4	+ 6·6	0	6	
		2681	0·573	275·3	47·7	+ 8·3	0	2	
		2681	0·537	277·1	45·1	+ 9·2	0	20	
		2681*b*	0·486	283·6	41·4	+12·2	18	129	
		2681	0·438	286·9	38·0	+13·1	10	57	
		2681	0·376	297·2	32·8	+15·9	0	4	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c.* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2687, Oct. 4–10. Two small spots on Oct. 4 and 5. Only one very faint spot is seen on Oct. 6. The group has increased in size by the succeeding day. It forms a short stream, of which *a* and *b* are the principal components, until Oct. 10.
Group 2688, Oct. 4 A very small spot.
Group 2689, Oct. 4. Two small spots surrounded by dense faculæ.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
278d·480	CL,M	2681	0·362	293·2	32·6	+14·2	11	55	
		2680*a*	0·686	227·9	45·8	−22·0	11	34	593*sp*
I.		2680	0·693	226·6	45·7	−23·0	0	5	
		2684	0·528	209·3	28·6	−21·2	0	2	
		2684*a*	0·514	208·7	27·8	−20·5	10	40	
		2684	0·529	205·9	27·0	−22·1	0	9	
		2684	0·502	203·6	25·0	−21·0	8	12	
		2684	0·491	202·6	24·2	−20·6	0	8	
		2684	0·488	197·0	21·4	−21·4	0	5	
		2684	0·493	191·9	18·9	−22·4	0	4	
		2687	0·360	189·6	16·1	−14·3	0	10	
		2687	0·395	174·3	10·3	−16·6	0	7	
		2685*b*	0·161	19·2	9·5	+15·1	21	105	
		2685	0·143	27·8	8·7	+13·6	1	13	
		2685*a*	0·184	41·3	5·4	+14·3	86	256	
		2685	0·212	47·6	3·3	+14·5	3	31	
		2685	0·214	55·6	2·2	+13·2	0	2	
		2685*d*	0·252	49·1	1·2	+15·7	15	97	
		2685	0·233	58·3	0·9	+13·2	1	4	
		2685	0·264	59·3	359·1	+14·0	3	12	
		2685	0·263	63·0	358·7	+13·1	0	5	
		2685*c*	0·315	53·6	357·3	+16·9	32	124	
		2685	0·302	62·0	356·7	+14·3	0	6	
			0·738	132·2	333·7	−24·5			165
			0·879	141·5	328·0	−38·9			160
			0·836	117·4	321·2	−18·7			612
			0·803	79·2	318·9	+12·5			2239
			0·901	58·7	309·1	+30·9			164
			0·934	110·7	307·0	−16·7			114
			0·922	78·6	304·8	+13·0			717
Oct. 5		Centre			(12·6)	(+6·4)	(341)	(1630)	(6512)
279·189	CL,JG		0·912	292·5	67·1	+23·0			246
			0·937	231·2	61·3	−33·0			54
I.			0·801	273·2	54·3	+ 6·3			320
			0·736	218·4	32·7	−29·8			342
		2679	0·996	244·7	82·2	−24·4	0	111	
		2679	0·994	246·1	81·1	−22·8	0	164	
		2679	0·978	242·9	74·3	−24·8	13	186	1489*c*
		2679	0·965	241·5	70·6	−25·3	21	78	
		2681	0·699	275·4	45·5	+ 8·3	0	6	539*c*
		2681*b*	0·663	280·8	42·5	+11·8	15	99	
		2681	0·619	282·4	39·1	+12·6	9	41	714*c*
		2681	0·538	286·9	33·0	+14·4	6	18	
1892.				°	°	°			
279d·189	CL,JG	2680	0·795	235·4	45·9	−22·3	9	27	1440*c*
		2684*a*	0·625	225·0	29·1	−20·6	17	130	
I.		2684	0·598	224·0	27·1	−19·8	0	10	
		2684	0·582	222·0	25·4	−19·8	3	16	
		2684	0·611	218·3	25·2	−22·8	3	8	870*c*
		2684	0·578	219·9	24·2	−20·4	9	56	
		2684	0·573	215·5	21·9	−21·8	0	14	
		2684	0·564	211·5	19·6	−22·7	0	8	
		2687	0·446	217·3	17·2	−14·7	0	6	
		2685*e*	0·184	322·6	7·6	+14·7	122	396	
		2685	0·145	332·9	4·9	+13·7	0	6	
		2685	0·135	337·3	4·1	+13·4	0	6	
		2685	0·177	342·6	4·1	+16·0	0	8	
		2685	0·127	348·5	2·5	+13·4	3	11	
		2685	0·144	355·5	1·7	+14·5	4	16	
		2685*d*	0·166	358·7	1·2	+15·8	17	124	
		2685	0·126	11·1	359·6	+13·4	4	27	
		2685	0·159	8·5	359·6	+15·3	2	17	
		2685	0·123	18·9	358·7	+13·0	0	6	
		2685	0·157	17·4	358·2	+14·8	0	21	
		2685*c*	0·193	16·2	357·8	+17·0	25	123	
		2690	0·835	84·1	304·1	+ 8·4	0	9	606*n*
			0·842	154·4	330·8	−43·9			274
			0·605	74·7	324·1	+14·3			778
			0·745	121·8	319·3	−18·4			644
			0·849	137·3	317·1	−34·1			145
			0·713	79·0	315·4	+12·3			338
Oct. 6		Centre			(1·0)	(+6·3)	(282)	(~~1798~~) 1748	(8799)
280·436	HA,JG		0·854	230·6	33·2	−28·8			129
		2681*b*	0·840	279·7	41·9	+11·5	11	80	
		2681	0·812	280·6	39·0	+12·2	3	22	668*c*
		2681	0·759	284·8	33·8	+15·3	0	9	
		2680*a*	0·915	242·4	45·4	−22·2	1	13	1148*c*
		2684*a*	0·783	237·6	29·2	−20·4	24	134	
		2684	0·754	233·1	25·0	−22·2	0	10	
		2684	0·740	235·8	24·9	−19·8	2	10	
		2684	0·725	234·2	23·2	−20·2	3	16	465*c*
		2684	0·732	231·3	22·5	−22·3	0	3	
		2684	0·717	228·8	20·3	−23·1	0	4	
		2684	0·703	230·3	19·9	−21·6	0	5	
		2687*a*	0·616	239·9	17·5	−12·8	2	9	
		2687	0·613	238·5	16·9	−13·4	0	2	133*c*
		2687*b*	0·600	236·3	15·3	−14·1	0	3	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2690, Oct. 6. A small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
280d·436	HA,JG	2685*e*	0·429	290·9	8·8	+14·5	68	417	
		2685*f*	0·370	292·0	5·1	+13·7	28	194	
		2685	0·320	291·7	2·2	+12·7	5	10	
		2685	0·319	295·8	1·6	+13·8	4	16	
		2685*d*	0·324	301·4	1·1	+15·6	30	213	
		2685	0·290	296·7	359·9	+13·4	11	92	
		2685	0·284	304·7	358·4	+15·3	0	23	
		2685*c*	0·293	310·9	357·8	+17·0	17	111	
		2691	0·421	191·1	349·4	−18·1	0	3	
		2692	0·419	77·0	320·0	+11·0	3	11	
		2692	0·489	78·1	315·4	+11·2	0	6	
		2692	0·557	83·6	310·6	+ 8·8	0	2	
		2693	0·608	139·3	319·3	−21·8	0	3	
		2694*a*	0·994	103·1	262·5	−12·3	0	67	183*p*
			0·941	115·6	278·9	−21·5			417
Oct. 7		Centre			(344·5)	(+6·2)	(212)	(1488)	(3143)
281·32	CL,JG		0·956	244·0	41·1	−22·6			648
			0·905	234·8	29·6	−28·2			180
I.			0·783	197·1	350·8	−42·5			292
		2681*b*	0·936	280·2	42·6	+11·7	22	68	871*nf*
		2684*a*	0·886	243·1	29·9	−20·4	27	125	
		2684	0·831	240·9	23·1	−19·9	0	10	836*c*
		2684	0·834	239·8	23·0	−20·9	0	6	
		2687*a*	0·755	246·8	17·9	−12·9	8	60	
		2687*b*	0·733	244·3	15·4	−14·0	2	7	417*c*
		2687	0·714	243·3	13·6	−14·0	0	5	
		2685*g*	0·585	286·4	8·0	+14·6	124	745	
		2685	0·493	285·8	1·7	+13·1	0	15	
		2685*d*	0·485	291·0	0·6	+15·5	32	261	
		2685	0·454	286·6	359·1	+13·0	9	28	807*c*
		2685	0·442	288·8	358·1	+13·8	0	10	
		2685*c*	0·449	296·2	357·5	+17·0	16	99	
		2695	0·844	118·6	280·8	−20·1	0	8	568*f*
		2694*a*	0·963	104·5	260·5	−12·1	0	64	258*c*
			0·872	148·4	294·0	−43·2			195
			0·906	110·0	271·0	−15·2			219
			0·920	62·7	265·7	+27·5			313
Oct. 8		Centre			(332·7)	(+6·2)	(240)	(1511)	(5604)
282·239	HA,JG		0·977	237·4	32·4	−30·0			139
		2681*b*	0·992	280·3	44·2	+11·0	0	29	586*f*
I.		2684*a*	0·963	246·2	31·1	−20·9	10	118	630*f*

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
282d·239	HA,JG	2687*a*	0·882	250·9	19·6	−13·7	17	82	
		2687*b*	0·853	249·7	16·0	−13·8	20	58	
I.		2687	0·837	249·4	14·2	−13·5	0	3	456*c*
		2687	0·836	248·3	13·8	−14·3	0	2	
		2685*g*	0·742	283·4	8·6	+14·0	139	784	
		2685	0·679	282·8	3·4	+13·1	0	6	
		2685	0·666	284·2	2·2	+14·0	0	3	
		2685	0·658	282·5	1·7	+12·8	0	5	
		2685*d*	0·655	286·7	1·2	+15·5	19	166	
		2685	0·649	284·2	0·9	+13·8	0	9	1110*c*
		2685	0·634	287·8	359·4	+15·9	3	20	
		2685	0·630	285·0	359·4	+14·2	0	8	
		2685	0·624	282·3	359·2	+12·4	3	14	
		2685*c*	0·608	289·5	357·3	+16·6	8	44	
		2694*a*	0·886	106·6	260·8	−11·6	5	21	
		2694	0·891	107·7	260·4	−12·7	0	10	258*c*
		2696	0·945	71·4	249·1	+19·5	0	22	
		2696	0·955	72·4	247·2	+18·6	0	18	
		2696	0·963	71·5	245·3	+19·5	0	8	499*c*
		2696	0·971	72·2	243·5	+18·7	0	24	
			0·777	121·2	276·1	−19·4			271
			0·890	130·4	268·2	−31·5			167
			0·851	62·1	263·5	+26·8			282
			0·957	113·0	251·4	−19·9			591
			0·964	104·7	248·2	−12·4			75
Oct. 9		Centre			(320·7)	(+6·1)	(224)	(1454)	(5064)
283·338	HA,JG		0·814	227·5	349·2	−28·9			175
		2687*a*	0·978	254·0	21·8	−14·2	34	184	
I.		2687*b*	0·953	253·2	16·0	−14·0	18	127	378*c*
		2697	0·965	244·0	16·5	−23·1	0	12	371*c*
		2685*g*	0·889	282·9	9·3	+14·3	114	693	
		2685	0·845	284·1	4·0	+15·1	5	42	
		2685*d*	0·819	284·9	1·2	+15·7	15	130	1066*c*
		2685*c*	0·777	286·0	356·9	+16·2	2	18	
		2698	0·284	291·8	321·7	+11·9	0	4	
		2698	0·084	299·5	310·3	+ 8·5	1	5	
		2698	0·070	311·5	309·1	+ 8·7	0	3	
		2694*a*	0·748	111·6	261·0	−11·7	5	15	
		2694*b*	0·823	110·3	253·9	−12·8	14	97	
		2694	0·825	108·7	253·3	−11·7	0	4	397*f*
		2694	0·835	109·9	252·6	−12·9	0	13	
		2694	0·841	107·5	251·5	−11·1	2	35	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2691, Oct. 7. A very small spot.
Group 2692, Oct. 7. Three very small spots.
Group 2693, Oct. 7. A very small spot.
Group 2694, Oct. 7–18. A single spot, *a*, on Oct. 7, 8 and 9. There has been a great outburst by Oct. 10, and *a* is the leader of a long stream of spots, of which *b* is the largest. The stream undergoes great changes of shape. Sometimes two or three small spots merge, but the resulting spot rapidly breaks up again. *b* has broken up by Oct. 13, and *a* has disappeared by Oct. 16. The whole group diminishes rapidly after Oct. 15.
Group 2695, Oct. 8. A small spot.
Group 2696, Oct. 9–10. Several small spots in a scattered group, entangled in much dense faculæ, on Oct. 9. Only one spot remains by Oct. 10.
Group 2697, Oct. 10. A small spot.
Group 2698, Oct. 10–15. Three very small faint spots on both Oct. 10 and 11, but only one spot is common to both days. The group is not seen on Oct. 12 and 13, but is seen again on Oct. 14 and 15 as a large spot, *a*, with some small companions.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
283d.338	HA,JG	2696	0·833	70·8	247·9	+19·3	7	13	585*f*
I.			0·891	118·3	248·7	−21·8			636
Oct. 10		Centre			(306·1)	(+6·1)	(217)	(1395)	(3608)
284·501	CL,HA		0·941	245·0	356·8	−21·1			245
			0·850	235·4	341·3	−25·1			250
			0·837	236·8	340·5	−23·5			287
		2685*g*	0·979	283·1	10·0	+14·0	59	507	1186*c*
		2685*d*	0·938	283·9	1·2	+15·1	11	77	
		2698	0·391	273·2	313·9	+ 6·7	0	5	
		2698	0·332	278·6	310·2	+ 8·4	0	2	
		2698	0·332	282·2	310·0	+ 9·6	0	2	
		2694*a*	0·565	120·9	261·3	−11·7	2	14	
		2694*b*	0·645	117·5	255·2	−12·5	24	121	
		2694	0·682	114·3	251·7	−11·7	8	65	295*c*
		2694	0·699	118·0	251·3	−14·6	0	5	
		2694	0·713	114·4	249·3	−12·7	4	20	
			0·799	127·4	246·7	−24·8			181
			0·907	120·4	231·9	−24·3			460
Oct. 11		Centre			(290·9)	(+5·9)	(108)	(818)	(2904)
285·436	M,JG		0·919	241·2	339·9	−23·5			474
		2685*d*	0·986	284·2	359·9	+15·0	0	65	704*c*
		2699	0·345	229·3	293·8	− 7·2	0	5	
		2699	0·332	223·0	291·8	− 8·2	0	3	
		2694*a*	0·422	135·3	261·0	−11·8	1	6	
		2694	0·475	129·6	256·7	−12·1	5	35	
		2694*b*	0·497	127·8	255·2	−12·3	12	69	
		2694	0·516	125·1	253·2	−11·9	0	4	
		2694	0·543	125·7	251·8	−13·2	0	7	
		2694	0·530	122·4	251·7	−10·0	3	15	
		2694	0·553	123·7	250·6	−12·5	3	41	
		2694	0·569	122·2	249·2	−12·4	0	10	
			0·849	126·1	228·9	−26·2			235
			0·924	62·9	211·1	+27·3			129
			0·947	99·1	208·6	− 6·6			144
Oct. 12		Centre			(278·6)	(+5·9)	(24)	(260)	(1686)
286·227	HA,JG		0·912	242·8	328·8	−21·8			623
			0·826	282·4	324·0	+13·5			757
I.			0·932	217·3	320·2	−44·4			120
			0·859	231·9	318·1	−28·3			160
			0·693	276·4	312·1	+ 8·6			199
		2700	0·358	291·2	288·0	+12·8	5	15	
1892.				°	°	°			
286d.227	HA,JG	2700	0·303	298·2	284·0	+13·8	5	16	
		2694*a*	0·332	157·7	260·7	−12·1	0	4	
I.		2694	0·391	145·0	254·9	−12·9	14	29	
		2694	0·382	142·8	254·5	−12·0	4	18	
		2694	0·404	139·7	252·7	−12·2	0	4	246*c*
		2694	0·428	139·0	251·4	−13·2	1	11	
		2694	0·415	135·2	250·8	−11·5	4	14	
		2694	0·488	143·7	250·5	−17·6	0	4	
		2694	0·442	135·3	249·6	−12·7	6	45	
			0·799	131·0	225·5	−27·3			238
			0·878	100·7	208·1	− 6·5			123
			0·892	61·9	205·7	+27·6			175
			0·971	113·0	195·6	−20·6			282
Oct. 13		Centre			(268·1)	(+5·8)	(39)	(160)	(2923)
287·534	CL,M		0·943	283·2	322·0	+14·3			739
			0·805	282·7	304·6	+13·6			357
		2698	0·903	275·5	315·7	+ 7·4	0	19	
		2698	0·891	274·1	314·0	+ 6·1	0	17	459*n*
		2698*a*	0·869	275·4	311·4	+ 7·5	20	102	
		2700*a*	0·651	284·3	291·2	+13·6	21	110	
		2700	0·599	287·5	287·0	+15·0	0	9	
		2700	0·586	286·6	286·2	+14·3	0	19	
		2700	0·564	286·3	284·6	+13·8	0	9	
		2701	0·520	238·9	277·7	−10·4	4	12	
		2694*a*	0·338	207·5	260·0	−11·7	0	6	
		2694	0·317	200·8	257·5	−11·5	0	9	
		2694	0·314	196·1	256·0	−11·8	4	16	
		2694	0·330	194·9	255·9	−12·8	6	16	
		2694	0·319	188·3	253·6	−12·7	3	38	
		2694	0·332	184·4	252·4	−13·5	0	25	
		2694	0·298	183·7	252·0	−11·5	9	68	
		2694	0·316	178·4	250·4	−12·7	10	126	
		2694	0·292	173·8	249·1	−10·4	0	3	
		2702	0·295	13·4	246·7	+22·3	0	9	
		2702	0·256	20·1	245·6	+19·5	2	25	
		2703*a*	0·983	83·1	171·1	+ 7·8	0	91	365*c*
			0·767	57·7	203·8	+28·1			242
			0·870	118·1	195·8	−21·0			490
			0·890	86·7	187·9	+ 5·6			256
			0·926	75·5	182·7	+15·6			245
			0·975	116·9	178·1	−24·6			170
Oct. 14		Centre			(250·9)	(+5·7)	(79)	(729)	(3323)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2700, Oct. 13–17. Two spots on Oct. 13. There has been an outburst by the succeeding day; the spots forming a stream, of which a large regular spot, *a*, is the leader.
Group 2701, Oct. 14. A small spot.
Group 2702, Oct. 14–15. Some small faint spots in nearly the same position as Group 2696.
Group 2703, Oct. 14–26. A regular spot, *a*, which quickly diminishes in size. Other spots, mostly very small, are seen following in a scattered stream on Oct. 16 and the succeeding days. *a* has disappeared by Oct. 19. *b*, the last spot of the group, is the largest and darkest from Oct. 19 to 22. *c*, the leader on Oct. 20 and the succeeding days, is a small regular spot, and alone remains by Oct. 25.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
288d·189	CL,HA		0·979	281·1	321·2	+12·0			648
			0·945	245·4	309·1	−21·0			266
I.			0·870	281·4	303·0	+12·7			500
			0·864	289·8	301·9	+19·9			152
		2698	0·962	275·6	316·7	+ 7·0	0	18	382c
		2698a	0·937	275·3	312·1	+ 7·0	14	152	
		2700a	0·768	282·8	292·5	+13·5	16	121	290c
		2700	0·707	285·3	287·0	+14·8	0	12	
		2700	0·674	286·7	284·2	+15·4	0	4	
		2700	0·672	284·6	284·2	+14·0	0	4	
		2694a	0·421	224·3	259·7	−12·1	3	18	212c
		2694	0·430	219·0	258·4	−14·0	0	4	
		2694	0·383	217·9	256·2	−12·0	7	26	
		2694	0·395	215·3	255·8	−13·2	5	15	
		2694	0·373	212·1	254·0	−12·8	4	36	
		2694	0·345	210·3	252·5	−11·7	2	17	
		2694	0·370	204·4	251·3	−14·0	2	11	
		2694	0·338	203·4	250·2	−12·3	26	102	
		2702	0·247	335·1	248·6	+18·6	0	4	
		2702	0·243	345·7	245·2	+19·2	0	22	
		2704	0·530	55·4	214·2	+22·5	0	6	82c
		2704	0·554	55·5	212·6	+23·2	0	6	
		2703a	0·950	83·5	170·2	+ 7·9	7	35	487c
			0·813	121·4	194·3	−21·4			255
			0·826	85·8	186·5	+ 6·6			250
			0·925	125·9	182·4	−30·2			150
			0·941	118·1	177·1	−24·1			274
			0·909	74·7	176·7	+16·2			296
			0·950	108·4	173·2	−15·6			200
Oct 15.		Centre			(242·3)	(+5·7)	(86)	(613)	(4444)
289·203	HA,JG		0·850	239·0	280·8	−22·5			161
			0·800	250·9	279·2	−11·6			148
I.		2700a	0·901	282·5	293·5	+13·7	47	156	819c
		2700	0·884	282·5	291·3	+13·7	0	14	
		2700	0·867	280·7	289·3	+12·1	0	7	
		2700	0·857	283·9	288·1	+14·8	0	4	
		2700	0·849	283·2	287·1	+14·1	0	23	
		2694	0·553	235·1	256·6	−13·5	0	8	305c
		2694	0·540	236·7	256·3	−12·3	7	48	
		2694	0·525	234·6	254·8	−12·6	3	13	
		2694	0·508	231·2	252·8	−13·4	1	5	
		2694	0·496	233·3	252·8	−12·1	0	10	
		2694	0·495	229·2	251·5	−13·7	5	18	
1892.				°	°	°			
289d·203	HA,JG	2694	0·475	229·2	250·4	−12·8	16	76	
		2694	0·467	225·5	248·9	−13·8	0	4	
I.		2703a	0·840	84·3	171·6	+ 7·8	7	20	807f
		2703	0·852	84·6	170·3	+ 7·5	0	5	
		2705	0·898	116·7	169·9	−21·0	0	14	592c
		2705	0·923	115·2	165·9	−20·6	0	32	
			0·679	129·6	195·0	−20·9			173
			0·818	73·3	174·2	+16·8			334
			0·965	69·5	153·3	+21·2			288
Oct. 16		Centre			(228·9)	(+5·6)	(86)	(457)	(3627)
290·487	HA,JG		0·931	250·0	277·5	−16·3			345
		2700a	0·986	283·3	293·2	+14·0	21	157	524f
		2700	0·968	284·2	288·1	+15·1	0	9	
		2694	0·755	248·4	257·6	−11·4	0	20	238c
		2694	0·699	247·2	253·0	−11·5	0	3	
		2694	0·693	243·7	251·6	−13·7	0	7	
		2694	0·685	245·3	251·4	−12·4	6	45	
		2703a	0·635	84·5	172·5	+ 7·7	1	8	142c
		2703	0·649	87·2	171·5	+ 6·0	0	4	
		2703	0·665	85·4	170·3	+ 7·2	0	11	
		2703	0·692	84·6	168·1	+ 7·7	0	6	
		2703	0·757	82·6	162·7	+ 9·2	0	12	126c
		2705	0·731	127·5	173·4	−22·1	5	38	144c
		2705	0·786	122·0	166·7	−20·7	2	19	87c
		2706a	0·929	118·8	149·0	−24·2	0	12	458c
		2707a	0·964	119·6	142·6	−26·6	11	79	
		2708	0·995	76·5	126·9	+14·0	0	35	437c
			0·887	77·1	149·2	+14·0			223
			0·909	70·6	146·5	+19·9			506
			0·958	62·6	138·2	+27·8			321
Oct. 17		Centre			(212·0)	(+5·5)	(46)	(465)	(3551)
291·436	HA,JG		0·963	256·0	271·9	−11·9			128
			0·909	298·1	264·1	+27·7			263
			0·844	240·4	251·2	−21·3			312
			0·758	289·9	247·9	+18·6			122
		2694	0·816	250·8	251·3	−12·3	3	10	514p
		2703a	0·446	83·4	173·0	+ 7·8	1	5	119c
		2703	0·450	86·1	172·7	+ 6·6	0	2	
		2703	0·470	85·3	171·4	+ 7·0	2	21	
		2703	0·577	79·5	164·3	+10·4	0	2	170c
		2703	0·588	82·8	163·4	+ 8·6	5	29	
		2703	0·633	82·6	160·1	+ 8·9	1	23	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2704, Oct. 15. A pair of very small faint spots.
Group 2705, Oct. 16–25. Two small faint spots on Oct. 16. The group developes into a scattered stream on the succeeding days. The leader, *a*, is a regular spot, with a close companion, *b*, on Oct. 20 to 24, which is measured with *a*, Oct. 22 to 24.
Group 2706, Oct. 17–25. A small faint spot, *a*, on Oct. 17. A second, *b*, is seen preceding it on Oct. 18. The group increases on the succeeding days, *a* and *b* both becoming larger, and small spots forming near them. The group diminishes after Oct 22, and only *b* remains by Oct. 25.
Group 2707, Oct. 17–25. A regular spot, *a*. A small companion is seen on Oct. 18.
Group 2708, Oct. 17–21. A small faint spot on Oct. 17. An irregular cluster on Oct. 18 and 19. Only one very small faint spot remains by Oct. 20.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
291d.436	HA,JG	2705*a*	0·594	139·6	175·0	−21·9	16	53	
		2705	0·610	137·6	173·2	−21·8	0	6	
		2705	0·629	134·7	170·8	−21·5	0	1	325*c*
		2705	0·648	133·6	169·2	−21·8	3	17	
		2705	0·671	129·8	166·1	−20·9	4	14	
		2706*b*	0·811	123·0	152·1	−22·6	0	5	
		2706*a*	0·843	123·4	149·1	−24·2	4	18	
		2707*a*	0·895	123·3	142·9	−26·5	4	39	440*c*
		2707	0·902	122·4	141·7	−26·0	0	9	
		2708	0·948	77·0	127·5	+14·0	0	44	
		2708	0·953	75·8	126·4	+15·2	0	14	597*c*
			0·853	67·6	141·5	+21·8			298
Oct. 18		Centre			(199·4)	(+5·4)	(43)	(312)	(3288)
292·214	CL,AE		0·921	253·2	253·8	−13·2			771
			0·917	241·9	250·5	−23·1			522
I.			0·867	289·0	249·0	+19·0			294
			0·764	226·7	227·7	−27·4			437
		2703	0·311	81·7	171·1	+ 7·6	0	21	
		2703	0·411	82·0	164·9	+ 8·1	5	24	
		2703	0·448	82·8	162·5	+ 8·0	0	42	314*c*
		2703*b*	0·496	81·8	159·5	+ 8·6	9	34	
		2705*a*	0·508	154·6	175·6	−22·0	30	103	
		2705	0·561	145·1	168·9	−22·3	0	6	
		2705	0·572	143·4	167·6	−22·3	0	5	419*c*
		2705	0·579	139·9	165·6	−21·4	6	12	
		2706*b*	0·715	129·5	152·5	−22·7	9	43	
		2706	0·728	129·6	151·6	−23·4	0	4	
		2706	0·730	127·6	150·6	−22·3	0	5	300*c*
		2706*a*	0·753	127·4	148·7	−23·2	1	16	
		2707*a*	0·826	128·1	142·4	−27·0	16	43	478*f*
		2708	0·880	74·1	127·3	+16·5	0	16	
		2708	0·886	76·8	126·5	+14·1	0	54	1183*c*
			0·765	65·6	140·6	+22·0			389
Oct. 19		Centre			(189·1)	(+5·3)	(76)	(428)	(5107)
293·457	AE,JG		0·881	235·2	227·0	−27·1			237
		2709*a*	0·699	254·9	215·4	− 6·6	15	72	
		2709*b*	0·655	252·0	211·6	− 7·5	12	36	190*c*
		2703*c*	0·115	68·1	166·6	+ 7·8	4	26	
		2703	0·165	70·4	163·8	+ 8·4	0	8	
		2703	0·197	57·1	163·1	+11·4	0	8	
		2703	0·202	68·2	161·9	+ 9·5	0	6	
		2703	0·200	75·6	161·6	+ 8·0	0	6	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
293d.457	AE,JG	2703	0·226	76·7	160·0	+ 8·2	0	6	
		2703*b*	0·252	73·2	158·7	+ 9·3	15	72	
		2705*a*	0·460	188·2	176·8	−21·7	19	74	
		2705*b*	0·457	184·4	175·0	−21·7	0	14	
		2705	0·460	175·8	170·7	−21·9	0	7	
		2705	0·456	171·0	168·4	−21·4	0	6	
		2705	0·475	165·3	165·4	−22·0	0	20	
		2706*b*	0·541	146·8	154·3	−21·8	14	42	
		2706	0·558	145·8	153·0	−22·4	0	5	
		2706	0·604	142·4	149·2	−23·7	0	9	326*c*
		2706*a*	0·601	141·1	148·7	−23·0	8	29	
		2707*a*	0·690	138·8	142·4	−26·6	10	35	272*f*
		2708	0·721	74·6	127·0	+14·7	0	3	
			0·960	81·2	98·7	+ 9·9			201
Oct. 20		Centre			(172·8)	(+5·3)	(97)	(484)	(1226)
294·441	AE,JG		0·957	238·4	227·2	−28·2			635
			0·725	237·5	199·9	−18·9			292
		2709*a*	0·856	259·1	217·4	− 6·6	16	118	
		2709*b*	0·806	256·2	211·8	− 7·9	7	78	571*c*
		2703*c*	0·155	286·1	168·4	+ 7·7	6	33	
		2703	0·131	297·8	166·5	+ 8·7	0	10	
		2703	0·106	301·7	165·0	+ 8·3	0	13	
		2703*b*	0·072	15·8	158·7	+ 9·2	9	63	
		2705*a*	0·535	212·3	177·7	−21·8	12	52	
		2705*b*	0·521	210·8	176·4	−21·5	1	19	154*c*
		2705	0·470	197·5	168·5	−21·4	0	7	
		2705	0·467	189·8	164·7	−22·1	0	10	
		2706*b*	0·460	170·5	155·1	−21·7	12	56	
		2706	0·469	168·2	153·9	−22·0	0	16	
		2706*a*	0·511	159·9	148·8	−23·5	2	28	302*c*
		2707*a*	0·589	152·9	142·4	−26·6	1	19	
		2708	0·549	71·2	127·4	+14·6	0	9	
		2710	0·869	103·9	101·3	− 9·3	0	24	
		2710	0·910	105·3	96·4	−11·6	0	18	481*c*
			0·896	80·3	95·9	+11·0			714
Oct. 21		Centre			(159·8)	(+5·2)	(66)	(573)	(3149)
295·492	AE,JG		0·833	239·7	196·5	−21·7			389
		2709*a*	0·958	261·5	218·3	− 6·6	12	128	
		2709*b*	0·923	259·1	212·0	− 8·0	6	82	486*c*
		2703*c*	0·405	276·3	169·8	+ 7·2	5	44	
		2703	0·329	281·4	165·0	+ 8·5	2	15	
		2703*b*	0·227	288·1	158·6	+ 9·0	10	77	

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Group 2709, Oct. 20–22. Two spots, *a* and *b*. *a* is a large regular spot.
Group 2710, Oct 21–22. Three small spots, two of which are measured together on Oct. 21.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
295d·492	AE,JG	2705*a*	0·660	227·5	177·6	−22·1	10	66	181*c*
		2705	0·544	213·4	164·8	−22·1	0	6	
		2706*b*	0·474	197·9	155·0	−21·7	11	93	
		2706	0·475	192·6	152·4	−22·5	0	30	
		2706*a*	0·483	185·0	148·6	−23·5	16	72	
		2707*a*	0·530	173·5	142·2	−26·6	8	16	112*c*
		2710	0·718	108·0	102·8	− 9·1	0	12	
		2710	0·740	108·0	100·6	− 9·6	0	6	380*c*
		2710	0·785	108·0	96·7	−10·7	0	6	
			0·755	79·0	97·0	+11·7			298
			0·983	115·6	70·2	−24·0			2090
			0·980	65·7	66·7	+24·8			109
Oct. 22		Centre			(146·0)	(+5·1)	(80)	(653)	(4045)
296·294	HA,JG		0·889	243·8	193·6	−20·5			354
			0·710	226·0	169·7	−25·3			316
I.		2703*c*	0·578	276·1	170·7	+ 7·6	11	69	409*c*
		2703	0·502	280·5	165·3	+ 9·6	0	7	
		2703	0·488	279·5	164·4	+ 9·1	0	3	
		2703*b*	0·392	281·0	158·2	+ 8·9	7	35	
		2705*a*	0·761	234·7	177·4	−22·3	18	66	338*c*
		2706*b*	0·546	214·8	154·9	−21·8	21	54	
		2706	0·533	209·0	151·6	−22·9	0	10	364*c*
		2706*a*	0·523	203·4	148·5	−23·7	7	65	
		2707*a*	0·534	190·2	141·4	−26·6	5	22	91*c*
		2711	0·917	117·6	73·7	−22·8	0	20	1091*f*
			0·653	71·5	95·5	+15·8			295
			0·922	66·9	68·3	+23·2			212
			0·974	78·4	58·0	+12·4			102
Oct. 23		Centre			(135·4)	(+5·0)	(69)	(351)	(3572)
297·440	CL,JG		0·965	242·8	184·9	−18·4			126
			0·864	289·1	179·7	+18·9			72
		2703*c*	0·776	276·3	171·3	+ 8·0	7	34	344*p*
		2703*b*	0·618	279·5	158·3	+ 9·7	0	7	
		2705*a*	0·879	241·6	176·6	−22·0	8	40	308*c*
		2705	0·803	237·0	167·0	−22·6	0	11	83*c*
		2706*b*	0·701	231·6	156·4	−21·8	6	21	77*c*
		2706	0·656	222·4	149·3	−24·6	0	3	
		2706	0·640	223·7	148·9	−23·2	0	4	
		2706*a*	0·641	222·1	148·2	−24·0	3	11	
		2707*a*	0·610	212·3	141·5	−26·4	3	10	
		2707	0·600	209·9	139·8	−26·6	0	3	
		2712	0·182	294·9	129·9	+ 9·2	0	4	
1892.				°	°	°			
297d·440	CL,JG		0·850	120·8	68·1	−22·8			515
			0·946	113·9	52·9	−20·7			727
			0·929	79·2	51·7	+11·8			354
Oct. 24		Centre			(120·3)	(+4·9)	(27)	(148)	(2606)
298·266	CL,AE		0·845	286·5	166·8	+16·5			376
			0·753	299·5	155·5	+25·0			462*c*
I.			0·670	287·3	150·7	+15·1			344
		2703*c*	0·888	276·3	172·2	+ 7·8	4	45	479*c*
		2705*a*	0·950	244·5	177·2	−22·4	0	20	533*c*
		2705	0·887	241·2	166·6	−22·7	0	4	
		2706*b*	0·805	237·9	156·6	−22·0	1	12	5438*f*
		2707*a*	0·695	223·2	141·3	−26·3	1	11	
			0·761	128·2	68·5	−24·4			505
			0·778	78·0	58·4	+12·4			138
			0·897	116·5	50·2	−21·2			1035
			0·927	77·3	41·2	+13·6			310
Oct. 25		Centre			(109·4)	(+4·8)	(6)	(92)	(4725)
299·468	CL,JG		0·957	246·4	163·1	−20·9			197
			0·929	286·8	162·0	+17·3			235
			0·886	240·0	150·3	−23·8			478
			0·824	296·2	147·4	+24·2			257
			0·778	230·3	135·2	−26·2			195
		2703*c*	0·977	276·9	171·4	+ 7·8	0	23	511*f*
		2713	0·614	289·2	130·3	+15·4	3	32	194*c*
		2713	0·571	290·2	127·1	+15·3	0	29	
		2711	0·527	145·9	75·1	−21·3	0	9	
		2711	0·568	147·5	74·1	−23·7	0	7	
		2714	0·940	75·7	23·2	+15·0	15	62	963*c*
		2715*a*	0·985	75·6	12·8	+15·0	26	173	
			0·846	122·6	42·3	−24·2			494
			0·953	115·0	24·9	−22·1			790
			0·956	106·6	22·7	−14·4			424
Oct. 26		Centre			(93·5)	(+4·7)	(44)	(335)	(4738)
300·358	HA,JG		0·941	279·7	152·3	+10·7			120
			0·952	243·2	149·7	−23·7			331
I.			0·871	294·9	141·3	+23·9			762
			0·849	234·3	129·0	−20·5			410
			0·727	278·8	128·4	+ 9·6			194
		2713	0·778	286·7	132·4	+15·9	0	15	435*c*
		2713	0·766	286·4	131·3	+15·5	0	6	
		2713	0·751	285·7	130·0	+14·8	5	38	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2711, Oct. 23–26. A close pair of very small faint spots on Oct. 23. The group is not seen on Oct. 24 or 25. A very small faint spot and a small cluster on Oct. 26.
Group 2712, Oct. 24. A very small faint spot.
Group 2713, Oct. 26–28. A pair of small irregular spots on Oct. 26. The group has broken up into a number of very small spots, irregularly scattered by Oct 27. On Oct. 28 it consists of one spot, followed by several very small spots in a close cluster.
Group 2714, Oct. 26–29. A spot of irregular outline on Oct. 26. It has begun to break up by Oct. 27, and diminishes in area and distinctness day by day.
Group 2715, Oct. 26–Nov. 3. A large composite spot, *a*, on Oct. 26. It diminishes rapidly, and throws off small fragments. On Nov. 1 in particular it is surrounded by a number of widely scattered, very small spots. These have disappeared by Nov. 2. *a* has diminished still further by Nov. 3, and is accompanied by two other very small spots.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
300d·358	HA,JG	2713	0·717	286·9	126·9	+15·3	4	40	
		2716*a*	0·960	120·5	13·1	−27·5	0	346	1001*np*
I.		2714	0·862	74·8	22·4	+15·4	12	42	1002*c*
		2715*a*	0·938	75·8	11·8	+14·9	65	295	
			0·703	128·2	45·4	−22·0			536
			0·880	107·9	22·6	−13·4			524
Oct. 27		Centre			(81·8)	(+4·6)	(86)	(782)	(5315)
301·325	HA,JG		0·927	294·6	136·6	+24·5			206
			0·941	240·5	134·2	−25·7			318
I.		2713	0·883	284·2	131·0	+14·7	10	60	839*c*
		2713	0·846	285·0	126·6	+15·1	0	33	
		2717*a*	0·749	123·6	27·2	−21·1	6	24	180*c*
		2717	0·775	121·3	24·2	−20·5	0	3	
		2716*b*	0·798	129·4	25·3	−27·1	25	45	
		2716	0·813	127·5	23·0	−26·5	25	58	
		2716	0·826	126·3	21·3	−26·2	3	12	
		2716	0·837	128·3	21·0	−28·2	7	29	832*c*
		2716	0·844	125·7	19·1	−26·6	0	12	
		2716	0·854	127·8	18·9	−28·7	0	9	
		2716*a*	0·895	124·5	12·5	−28·0	90	632	
		2714	0·737	73·2	22·2	+15·4	13	31	1156*f*
		2715*a*	0·836	75·2	12·5	+14·8	30	136	
			0·801	114·8	19·8	−16·7			299
Oct. 28		Centre			(69·0)	(+4·5)	(209)	(1084)	(3830)
302·278	HA,JG		0·939	285·9	126·5	+16·5			548
			0·911	277·3	122·2	+ 8·5			223
I.			0·859	273·7	115·6	+ 5·5			58
			0·821	287·4	111·1	+16·7			95
			0·768	255·4	104·9	− 8·2			203
		2718	0·623	280·6	94·7	+10·0	0	10	
		2718	0·624	284·1	94·5	+12·2	0	13	267*c*
		2718	0·607	282·6	93·4	+11·1	5	36	
		2719	0·192	297·1	66·3	+ 9·3	3	17	
		2720	0·097	31·6	53·5	+ 9·1	2	9	
		2720	0·114	58·2	50·8	+ 7·8	0	6	
		2721	0·537	163·6	46·7	−26·6	11	28	197*c*
		2721	0·565	161·1	44·5	−27·9	3	18	
		2717*a*	0·607	133·7	28·5	−20·9	51	103	
		2717	0·639	130·3	25·2	−20·6	4	20	
		2717	0·667	129·7	23·1	−21·5	24	77	382*c*
		2717	0·673	127·5	21·8	−20·5	0	7	
		2716*b*	0·680	138·8	26·4	−26·9	43	155	
		2716	0·730	135·4	21·2	−27·7	26	102	
1892				°	°	°			
302d·278	HA,JG	2716	0·755	135·2	19·1	−28·8	16	42	
		2716*a*	0·804	130·0	12·4	−27·9	99	651	
I.		2716	0·787	125·4	12·0	−23·9	4	28	974*c*
		2716	0·815	124·6	9·0	−24·5	0	17	
		2716	0·833	125·3	7·5	−25·9	0	16	
		2714	0·568	69·2	23·1	+15·3	0	21	200*c*
		2714	0·612	74·0	19·4	+13·2	0	5	
		2715	0·690	72·0	13·6	+15·6	0	11	823*f*
		2715*a*	0·696	73·1	13·0	+14·8	16	93	
			0·695	114·7	16·1	−13·5			144
			0·893	115·1	357·2	−20·0			396
			0·947	126·6	352·2	−32·5			134
			0·939	49·4	349·2	+39·4			82
Oct. 29		Centre			(56·4)	(+4·4)	(307)	(1485)	(4726)
303·470	M,JG		0·935	286·3	110·0	+16·7			219
			0·893	257·2	102·4	− 9·4			124
		2718	0·823	280·5	96·0	+11·1	0	14	
		2718	0·817	282·3	95·3	+12·5	0	6	
		2718	0·803	280·4	94·0	+10·9	8	48	383*n*
		2718	0·790	282·7	92·7	+12·7	0	6	
		2722	0·760	241·9	85·3	−17·9	0	5	70*c*
		2719	0·473	281·3	68·6	+ 9·1	1	5	
		2719	0·428	283·9	65·5	+ 9·8	0	9	
		2719	0·398	285·7	63·5	+10·1	0	8	
		2719	0·393	283·5	63·4	+ 9·2	0	6	
		2720	0·266	286·1	55·6	+ 8·3	4	12	
		2720	0·208	294·9	51·7	+ 9·2	5	23	
		2721	0·520	191·9	47·5	−26·2	7	40	
		2721	0·511	186·7	44·5	−26·0	0	2	
		2721	0·538	185·7	44·2	−28·0	3	9	
		2721	0·530	183·2	42·6	−27·5	0	9	
		2717*a*	0·455	157·8	30·2	−20·6	26	143	154*c*
		2717	0·496	148·3	24·6	−20·7	0	4	
		2717	0·508	147·0	23·5	−21·0	5	23	189*c*
		2717	0·534	148·2	23·0	−22·8	3	10	
		2717	0·531	146·2	22·2	−22·0	9	24	
		2716*b*	0·553	158·3	27·5	−25·6	30	203	169*c*
		2716	0·610	151·8	21·7	−28·3	9	47	
		2716	0·604	149·7	20·7	−27·3	0	9	
		2716	0·610	147·9	19·5	−26·9	0	5	
		2716	0·639	148·1	18·1	−28·8	21	173	499*c*
		2716	0·670	142·3	13·1	−28·1	21	333	
		2716	0·633	137·2	12·8	−23·8	1	11	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Faculæ unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2716, Oct. 26–Nov. 6. A large composite spot, *a*, on Oct. 27; by Oct. 28 several small spots, whose leader is *b*, have formed in front. *a* has broken up by Oct. 30, and forms a large stream following *b*, which is now a large regular spot. The stream undergoes continual changes, and becomes elongated in a direction parallel to the equator.
Group 2717, Oct. 28–Nov. 6. Two small spots on Oct. 28. Both have considerably increased and several new small spots have appeared by the succeeding day. The preceding spot, *a*, is large and regular. The following spots form a stream parallel to Group 2716, and have disappeared by Nov. 2.
Group 2718, Oct. 29–Nov. 1. Several spots, mostly small, in an irregular group.
Group 2719, Oct. 29–Nov. 3. A few small spots in a short stream. Only one spot is seen on Nov. 2 and 3.
Group 2720, Oct. 29–Nov. 1. Two spots on Oct. 29. Both have divided into two by Oct. 31, and the spots form a curved stream on Nov. 1.
Group 2721, Oct. 29–Nov. 1. Two small spots preceding Group 2716 on Oct. 29, and several small spots in a short stream on Oct. 30 and 31. Only one spot is seen on Nov. 1.
Group 2722, Oct. 30–Nov. 1. A very small faint spot on Oct. 30 and 31. Two spots on Nov. 1 and 2.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
303d.470	M, JG	2716	0·669	138·4	11·1	−26·2	0	7	
		2716	0·702	140·8	10·3	−29·2	0	12	
		2716	0·695	138·2	9·4	−27·5	6	32	
		2716	0·710	138·7	8·6	−28·5	7	28	
		2715	0·472	69·9	13·7	+13·1	4	19	} 83c
		2715a	0·478	67·5	13·7	+14·4	15	54	
			0·851	55·9	345·6	+31·0			64
			0·928	112·1	335·7	−18·7			158
			0·930	74·1	332·2	+16·4			767
			0·957	81·8	327·4	+ 9·1			145
Oct. 30		Centre			(40·7)	(+4·3)	(185)	(1339)	(3024)
304·173	CL, AE		0·934	255·4	98·8	−12·0			71
			0·906	293·5	95·8	+23·0			41
I.			0·909	238·7	91·1	−26·0			45
			0·738	229·4	69·7	−25·3			446
		2718	0·905	279·7	96·4	+10·6	0	7	} 631c
		2718	0·882	279·7	93·4	+10·6	5	31	
		2722	0·824	244·0	82·7	−18·5	2	10	348c
		2719a	0·586	279·4	67·2	+ 8·9	5	24	
		2719	0·540	281·4	63·8	+ 9·7	0	4	
		2719	0·537	279·3	63·8	+ 8·5	0	3	
		2719	0·525	280·4	62·9	+ 9·0	0	1	
		2720	0·422	279·6	56·2	+ 7·8	2	8	
		2720	0·396	279·9	54·6	+ 7·8	1	10	
		2720	0·351	284·8	51·5	+ 9·1	8	30	
		2721	0·568	206·0	47·6	−26·6	4	17	} 269c
		2721	0·545	200·2	43·6	−26·5	0	2	
		2721	0·571	198·7	43·5	−28·5	0	4	
		2717a	0·427	177·2	30·2	−21·0	28	163	
		2717	0·429	173·0	28·3	−20·9	0	8	
		2717	0·436	168·3	26·1	−21·0	1	11	
		2717	0·456	162·5	23·1	−21·5	7	36	
		2717	0·478	160·7	21·7	−22·6	6	18	
		2716b	0·520	172·9	27·4	−26·8	44	213	
		2716	0·568	163·3	20·8	−28·8	8	42	
		2716	0·559	158·7	18·4	−27·1	0	4	
		2716	0·614	158·2	16·2	−30·6	0	3	
		2716	0·605	155·6	14·9	−29·3	81	418	
		2716	0·617	149·4	10·7	−28·1	21	181	
		2716	0·571	143·9	10·1	−23·5	0	3	
		2716	0·647	149·4	9·3	−29·9	0	12	
		2716	0·620	146·6	9·0	−27·1	2	6	
		2716	0·589	143·0	8·7	−24·1	0	2	
1892.				°	°	°			
304d.173	CL, AE	2716	0·611	144·4	8·3	−25·9	0	2	
		2716	0·633	146·4	8·3	−27·8	6	29	
I.		2716	0·646	146·3	7·5	−28·6	5	22	
		2716	0·628	143·2	6·8	−26·3	0	4	
		2716	0·660	144·8	5·9	−28·8	0	3	
		2715a	0·348	60·2	13·5	+14·0	16	87	
		2723	0·974	81·9	314·4	+ 8·9	0	16	234p
			0·843	139·8	348·8	−36·9			204
			0·903	118·0	331·7	−23·0			240
			0·883	73·9	329·7	+16·2			698
			0·883	81·2	329·4	+ 9·7			133
Oct. 31		Centre			(31·5)	(+4·2)	(252)	(1434)	(3360)
305·246	AR, JG		0·815	236·7	65·2	−23·8			1085
		2718	0·976	282·4	95·1	+13·0	0	8	653c
I.		2722	0·958	249·1	87·9	−18·7	7	37	} 148c
		2722	0·933	248·1	83·2	−18·7	2	20	
		2719	0·803	277·4	70·7	+ 8·4	5	42	} 470f
		2719	0·763	278·2	66·9	+ 8·9	0	4	
		2720	0·633	275·9	56·4	+ 6·3	6	13	} 258c
		2720	0·594	277·7	53·6	+ 7·9	0	1	
		2720	0·581	278·8	52·6	+ 8·4	2	15	
		2720	0·567	280·4	51·6	+ 9·3	3	8	
		2721	0·674	220·4	46·6	−27·2	0	10	270p
		2717a	0·478	206·7	30·6	−21·2	26	151	} 356c
		2717	0·466	204·5	29·2	−21·0	0	7	
		2717	0·454	196·7	25·3	−21·6	6	12	
		2717	0·454	191·8	23·0	−22·2	2	21	
		2716b	0·538	197·5	27·7	−26·8	42	176	
		2716	0·526	189·1	22·6	−27·1	3	15	} 812c
		2716	0·545	184·8	20·3	−28·7	10	64	
		2716	0·559	181·0	17·9	−29·7	18	114	
		2716	0·532	179·8	17·2	−27·9	0	3	
		2716	0·531	176·5	15·2	−27·8	0	3	
		2716	0·558	175·6	14·5	−29·6	28	222	
		2716	0·484	170·1	12·1	−24·3	6	9	
		2716	0·532	171·4	12·0	−27·5	6	44	
		2716	0·557	168·5	10·0	−28·9	8	58	
		2716	0·561	165·5	8·1	−28·8	9	71	
		2715	0·243	337·5	22·9	+17·0	0	10	
		2715	0·222	354·9	18·5	+16·9	0	6	
		2715	0·148	11·8	15·5	+12·4	1	3	
		2715	0·169	13·1	15·1	+13·5	0	3	
		2715a	0·186	16·2	14·2	+14·3	13	46	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2723, Oct. 31–Nov. 3. A few small spots in an irregular group.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
305d.246	AR,JG	2715	0·219	26·9	11·4	+15·3	0	2	
		2715	0·255	27·4	10·3	+17·1	0	2	
I.		2724	0·505	144·0	359·0	−20·1	4	13	
		2725	0·675	97·7	335·4	− 2·1	0	7	
		2723	0·845	81·8	319·6	+ 9·1	0	14	
		2723	0·857	82·7	318·3	+ 8·3	0	20	367c
		2723	0·883	81·6	315·3	+ 9·3	5	22	
			0·737	122·1	335·9	−19·9			193
			0·793	71·1	325·7	+17·4			285
			0·834	116·7	325·3	−19·5			157
			0·939	75·3	307·3	+15·2			172
Nov. 1		Centre			(17·3)	(+4·1)	(212)	(1~~1~~76) 2	(5226)
306·466	CL,HA		0·936	240·2	65·8	−26·0			780
			0·877	297·3	61·0	+25·7			260
			0·844	248·1	55·6	−16·0			177
			0·805	277·7	54·9	+ 8·6			173
			0·807	235·7	48·1	−24·3			349
		2719	0·939	277·9	71·3	+ 8·8	10	70	398f
		2717a	0·619	228·7	30·9	−20·5	24	133	113c
		2716b	0·634	219·5	27·8	−25·6	31	199	
		2716	0·606	219·9	26·4	−24·0	2	19	465c
		2716	0·609	215·5	24·4	−26·0	23	130	
		2716	0·594	211·6	21·6	−26·6	1	13	
		2716	0·604	208·0	20·0	−28·4	0	21	
		2716	0·603	205·5	18·5	−29·0	8	24	
		2716	0·583	200·4	14·7	−29·1	11	175	
		2716	0·497	200·4	12·2	−23·7	2	10	
		2716	0·542	198·0	12·1	−26·9	0	7	
		2716	0·552	192·3	9·0	−28·6	10	97	
		2715a	0·291	309·1	14·7	+14·4	0	15	
		2724	0·399	178·1	0·5	−19·4	6	18	
		2725	0·505	111·3	333·1	− 7·0	2	17	
		2725	0·525	111·8	332·0	− 7·8	0	6	
		2725	0·542	109·0	330·4	− 6·7	0	12	
		2723	0·693	82·6	317·5	+ 8·0	0	6	
		2723	0·722	81·6	315·2	+ 8·8	4	17	116c
		2726	0·962	82·0	287·0	+ 8·8	0	11	204c
			0·880	71·7	300·1	+17·9			436
Nov. 2		Centre			(1·3)	(+4·0)	(134)	(1000)	(3471)
307·416	AR,JG		0·969	245·5	61·2	−22·5			834
			0·898	277·7	52·6	+ 8·6			276
			0·886	237·8	45·0	−26·0			596

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
307d.416	AR,JG	2719	0·989	278·0	70·5	+ 8·5	0	88	204f
		2717a	0·742	237·9	30·6	−20·2	25	125	
		2717	0·698	235·3	26·2	−20·2	0	4	254c
		2716	0·752	230·8	28·7	−25·3	1	35	
		2716	0·727	232·0	27·2	−23·5	5	22	
		2716b	0·733	229·2	26·5	−25·5	17	238	329c
		2716	0·716	225·5	23·5	−26·8	1	11	
		2716	0·699	224·5	21·8	−26·5	22	103	
		2716	0·695	221·3	19·9	−28·0	0	13	
		2716	0·684	218·9	17·9	−28·6	9	41	
		2716	0·663	218·4	16·3	−27·7	0	49	
		2716	0·672	215·9	15·5	−29·3	7	45	346c
		2716	0·649	213·3	12·7	−29·2	5	47	
		2716	0·621	210·6	9·7	−28·6	0	14	
		2716	0·607	208·6	7·9	−28·4	8	48	
		2727	0·599	300·3	22·2	+20·9	0	7	81c
		2727	0·577	300·9	20·5	+20·6	2	11	
		2715	0·486	289·0	16·7	+12·6	0	6	
		2715	0·474	297·1	14·6	+16·1	0	5	
		2715a	0·464	293·5	14·6	+14·3	0	7	
		2728	0·580	222·6	13·6	−21·5	4	6	91c
		2728	0·571	221·2	12·5	−21·7	0	3	
		2724	0·447	208·2	1·6	−19·2	5	10	
		2725	0·317	128·3	334·2	− 7·4	13	89	
		2725	0·342	122·6	331·9	− 6·7	0	3	
		2725	0·366	119·1	330·0	− 6·4	8	33	
		2725	0·382	120·2	329·3	− 7·4	3	18	
		2723	0·555	80·8	315·2	+ 8·3	0	3	
		2729	0·699	76·8	304·8	+12·0	0	6	
		2726a	0·863	82·2	289·0	+ 8·7	18	102	
		2726	0·877	81·9	287·4	+ 9·0	0	11	
		2726	0·880	84·1	287·0	+ 7·1	0	10	298c
		2726	0·883	82·5	286·6	+ 8·5	0	18	
		2726b	0·915	82·9	282·4	+ 8·1	20	103	
			0·739	78·6	301·3	+11·0			65
			0·828	73·2	293·3	+16·0			308
Nov. 3		Centre			(348·7)	(+3·9)	(173)	(1334)	(3682)
308·217	CL,AE		0·945	277·4	49·1	+ 8·1			278
			0·946	243·7	45·3	−23·3			896
I.			0·936	250·9	45·0	−16·3			116
			0·870	284·4	38·3	+14·4			83
			0·874	252·9	36·9	−13·0			75

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2724, Nov. 1–5. A small regular spot.
Group 2725, Nov. 1–9. A few small spots in an irregular group, which has developed into a stream with the largest spot, *a*, preceding by Nov. 3. The following spots have disappeared by Nov. 6, and *a* gradually diminishes as it approaches the west limb. A small companion is seen near *a* on Nov. 8.
Group 2726, Nov. 2–13. A small faint spot on Nov. 2. The group has greatly increased by the succeeding day, and consists of two regular spots, *a* and *b*, with several intermediate spots forming a stream. *a* and *b* remain fairly constant, but the small spots vary greatly in number, size, and position.
Group 2727, Nov. 3. Two small spots.
Group 2728, Nov. 3–4. Two very small spots on Nov. 3. A group of very small spots on Nov. 4.
Group 2729, Nov. 3. A very small spot preceding Group 2723.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
308d·217	CL,AE	2717a	0·840	241·8	30·4	−21·0	27	146	
I.		2716	0·842	235·2	28·3	−26·2	0	21	
		2716	0·825	237·0	27·2	−24·2	0	15	1282c
		2716b	0·826	234·0	26·2	−26·4	33	260	
		2716	0·795	230·9	21·9	−27·3	25	187	
		2716	0·782	227·5	19·2	−28·9	1	14	
		2716	0·758	225·8	16·3	−28·8	9	76	
		2716	0·756	223·6	15·0	−30·1	3	37	608c
		2716	0·733	220·8	11·7	−30·5	10	47	
		2716	0·694	218·0	7·5	−29·7	1	11	
		2716	0·677	218·5	6·7	−28·6	6	32	298c
		2728	0·686	231·1	13·2	−22·3	0	9	180c
		2728	0·666	230·5	11·6	−21·8	0	3	
		2724	0·551	223·7	1·9	−19·9	2	10	
		2725	0·215	162·6	334·4	− 8·0	17	82	
		2725	0·220	157·1	333·2	− 7·8	0	7	
		2725	0·243	150·2	331·1	− 8·3	0	2	241c
		2725	0·236	143·7	330·0	− 7·2	0	8	
		2725	0·241	139·7	329·1	− 6·8	8	34	
		2726a	0·752	81·3	289·5	+ 9·0	40	202	
		2726	0·792	81·8	285·8	+ 8·8	2	9	
		2726	0·792	85·0	285·8	+ 6·3	0	16	842c
		2726	0·819	81·4	283·2	+ 9·2	17	58	
		2726b	0·843	82·3	280·7	+ 8·5	35	275	
			0·840	154·3	306·7	−43·8			77
			0·776	69·4	288·4	+18·3			219
			0·942	115·7	271·4	−22·6			369
			0·942	108·3	270·0	−15·8			230
Nov. 4		Centre			(338·1)	(+3·8)	(236)	(1561)	(~~5186~~) 5794
309·179	HA,JG		0·950	281·2	37·3	+11·8			189
I.			0·859	289·5	23·9	+18·6			285
			0·683	289·4	7·3	+15·9			340
		2717a	0·936	245·5	31·3	−21·4	34	150	
		2716b	0·923	239·0	27·5	−26·6	20	168	
		2716	0·892	236·7	22·3	−27·3	26	155	
		2716	0·880	233·8	19·6	−29·2	0	8	
		2716	0·865	234·6	18·1	−27·8	0	3	
		2716	0·861	232·6	16·8	−29·2	11	43	1414c
		2716	0·854	231·0	15·3	−30·1	0	16	
		2716	0·832	231·4	13·1	−28·8	0	7	
		2716	0·833	228·6	11·9	−30·8	8	49	
		2716	0·792	228·1	7·7	−29·1	0	18	
1892.				°	°	°			
309d·179	HA,JG	2724	0·707	235·4	3·7	−20·7	1	6	
I.		2725	0·270	217·7	335·0	− 8·6	15	83	
		2725	0·214	205·1	330·6	− 7·4	0	3	
		2725	0·200	203·4	330·0	− 6·8	3	12	
		2726a	0·574	80·1	290·7	+ 8·7	55	211	
		2726	0·622	83·5	287·1	+ 7·0	0	9	
		2726	0·629	81·4	286·6	+ 8·3	0	25	
		2726	0·661	81·0	284·2	+ 8·7	0	15	367c
		2726	0·672	79·4	283·5	+ 9·9	6	28	
		2726b	0·697	81·9	281·4	+ 8·3	59	217	
			0·924	117·5	262·2	−23·6			282
			0·936	109·0	258·4	−16·3			244
Nov. 5		Centre			(325·4)	(+3·7)	(238)	(1226)	(3121)
310·253	HA,JG		0·941	288·0	21·4	+18·2			493
I.			0·820	287·8	5·7	+16·6			485
		2717a	0·995	248·0	33·3	−21·4	0	156	
		2716b	0·984	241·8	28·6	−26·9	0	154	
		2716	0·965	240·3	26·1	−27·4	0	108	
		2716	0·944	237·1	16·5	−29·3	0	28	1373c
		2716	0·935	236·1	14·5	−29·8	0	9	
		2716	0·919	234·1	11·2	−30·8	4	36	
		2725	0·463	242·0	335·7	− 9·2	13	45	
		2730a	0·401	43·1	294·4	+20·4	5	15	
		2730b	0·432	48·1	291·4	+20·1	5	19	
		2726a	0·356	75·0	291·0	+ 8·7	45	206	
		2726	0·395	76·7	288·5	+ 8·5	4	11	
		2726	0·422	77·5	286·8	+ 8·5	0	13	
		2726	0·473	75·8	283·7	+ 9·8	2	12	
		2726	0·471	78·9	283·6	+ 8·3	0	11	
		2726	0·494	77·7	282·2	+ 9·2	9	44	
		2726b	0·504	80·7	281·3	+ 7·8	30	115	
		2726	0·510	77·4	281·1	+ 9·5	0	6	
			0·845	119·8	258·9	−22·6			294
			0·865	112·3	254·6	−17·2			281
			0·919	55·1	247·1	+33·3			123
			0·981	102·4	233·6	−11·4			384
Nov. 6		Centre			(311·3)	(+3·6)	(117)	(988)	(3433)
311·217	HA,JG		0·961	238·0	7·6	−29·4			716
I.			0·915	284·4	4·6	+14·6			668
			0·903	247·3	359·9	−18·7			176

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2730, Nov. 6–13. Two small spots, *a* and *b*, on Nov. 6; a third spot is seen on Nov. 7. *a* and *b* have become large regular spots by the succeeding day. Several small spots are seen between them on Nov. 10. *b* has broken up by Nov. 12, and *a* alone remains on Nov. 13.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
311d·217	HA, JG	2725	0·637	250·0	335·8	− 9·8	8	33	
I.		2730*a*	0·297	11·6	294·9	+20·3	26	62	
		2730*b*	0·308	20·5	291·9	+20·2	7	25	
		2730	0·317	25·5	290·2	+20·0	9	72	
		2726*a*	0·161	58·2	290·6	+ 8·3	34	152	
		2726	0·154	71·1	290·1	+ 6·3	0	6	
		2726	0·188	61·3	288·9	+ 8·6	5	22	
		2726	0·260	71·3	284·2	+ 8·2	0	5	
		2726	0·278	71·6	283·1	+ 8·4	4	32	
		2726	0·298	72·1	281·9	+ 8·6	8	31	
		2726*b*	0·306	77·3	281·1	+ 7·2	31	115	
		2726	0·318	70·5	280·9	+ 9·4	0	16	
			0·714	117·7	257·4	−16·7			116
			0·946	104·2	229·0	−12·2			1010
Nov. 7		Centre			(298·5)	(+3·5)	(132)	(571)	(2686)
312·479	M, JG		0·967	287·2	358·3	+17·5			196
			0·803	287·1	335·6	+15·6			108
		2725	0·832	256·0	336·8	− 9·7	1	14	125*c*
		2725	0·813	258·0	335·2	− 7·7	0	5	
		2730*a*	0·375	322·0	296·2	+20·3	50	228	
		2730	0·352	327·4	293·6	+20·4	0	4	
		2730*b*	0·331	333·0	291·2	+20·3	27	204	
		2726*a*	0·183	298·8	291·3	+ 8·3	38	204	
		2726	0·102	335·9	284·4	+ 8·6	0	34	
		2726*b*	0·065	351·8	282·5	+ 7·0	18	108	
			0·827	107·8	228·4	−12·7			405
			0·863	99·3	223·3	− 6·3			52
			0·935	125·2	219·1	−31·1			127
			0·933	64·8	214·0	+24·6			153
			0·985	70·7	201·6	+19·6			163
Nov. 8		Centre			(282·0)	(+3·3)	(134)	(801)	(1329)
313·309	CL, AE		0·891	284·9	333·7	+14·7			732
I.			0·881	240·5	327·8	−23·9			195
			0·785	292·5	321·1	+19·5			370
			0·769	279·8	321·0	+ 9·6			306
		2725	0·931	257·6	338·3	−10·3	0	19	329*nf*
		2730*a*	0·513	306·0	297·2	+20·4	49	234	584*c*
		2730	0·479	306·4	295·0	+19·4	0	3	
		2730*b*	0·442	312·1	291·4	+20·2	38	211	
1892.				°	°	°			
313d·309	CL, AE	2726*a*	0·362	284·5	291·6	+ 8·2	53	242	515*c*
I.		2726	0·365	289·1	291·4	+ 9·9	0	6	
		2726	0·331	283·8	289·8	+ 7·5	0	3	
		2726	0·275	289·7	286·1	+ 8·4	0	25	
		2726	0·249	281·6	285·1	+ 6·0	0	13	
		2726	0·257	292·2	284·9	+ 8·7	8	45	
		2726*b*	0·225	286·6	283·5	+ 6·8	22	82	
		2726	0·216	290·9	282·7	+ 7·6	1	6	
			0·744	112·2	225·9	−14·1			640
			0·799	101·9	219·1	− 7·5			335
			0·879	126·2	216·7	−29·3			375
			0·914	65·1	206·0	+24·0			570
Nov. 9		Centre			(271·0)	(+3·2)	(171)	(889)	(4951)
314·484	HA, JG		0·978	261·2	332·6	+ 7·9			199
			0·929	285·2	323·6	+15·3			226
			0·866	214·9	298·0	−42·9			119
		2731	0·783	280·9	306·7	+10·4	0	7	339*p*
		2730*a*	0·698	295·4	297·4	+19·7	38	200	139*c*
		2730	0·686	298·6	295·7	+21·5	0	7	
		2730	0·647	299·9	292·3	+21·2	0	2	
		2730	0·628	297·9	291·4	+19·5	0	5	
		2730*b*	0·619	299·9	290·3	+20·5	18	110	
		2726*a*	0·590	279·7	291·3	+ 8·2	26	214	
		2726	0·517	281·7	286·2	+ 8·6	0	15	
		2726	0·490	281·7	284·4	+ 8·4	0	3	
		2726*b*	0·479	278·1	283·9	+ 6·6	11	52	
		2732	0·197	182·0	255·9	− 8·2	0	10	
		2732	0·199	171·9	253·9	− 8·2	0	6	
		2733	0·898	115·6	195·4	−21·3	0	13	96*f*
			0·841	68·5	199·5	+19·6			174
Nov. 10		Centre			(255·5)	(+3·1)	(93)	(644)	(1292)
315·286	HA, JG		0·923	247·4	309·4	−19·5			84
I.			0·914	213·6	293·3	−47·6			106
		2731	0·880	279·6	306·4	+ 9·8	0	13	575*n*
		2730*a*	0·799	291·7	296·4	+19·0	53	211	470*c*
		2730*b*	0·724	295·5	288·9	+20·2	30	88	
		2726*a*	0·714	278·0	290·2	+ 7·8	45	175	292*c*
		2826	0·649	279·4	285·0	+ 8·3	0	14	
		2726*b*	0·622	276·4	283·2	+ 6·3	17	56	
		2732	0·260	221·0	254·8	− 8·3	0	12	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2731, Nov. 10–11. A small spot.
Group 2732, Nov. 10–12. Two small spots on Nov. 10 and 11. One small spot on Nov. 12.
Group 2733, Nov. 10–11. A small faint spot.
N.B.—The time of the Indian photograph on Nov. 11 seems to be wrongly given. It would appear to be dated two hours too late; the longitudes should in that case be all increased by 1°·1.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
315d·286	HA,JG	2732	0·241	213·1	252·5	− 8·6	0	20	
I.		2734	0·370	195·1	250·7	−17·8	0	14	
		2734	0·420	189·0	248·9	−21·4	0	5	
		2734	0·375	189·2	248·5	−18·6	0	9	
		2735	0·753	67·3	197·8	+18·9	0	9	256*c*
		2733	0·832	118·8	193·4	−21·7	0	9	235*f*
			0·734	141·1	212·0	−32·2			144
			0·959	113·4	174·2	−21·4			190
			0·950	79·3	173·1	+11·1			396
Nov. 11		Centre			(244·9)	(+3·0)	(145)	(635)	(2748)
316·481	CL, AE		0·979	285·1	307·4	+15·4			123
		2730*a*	0·936	289·9	298·0	+19·6	25	241	475*c*
		2730*b*	0·889	291·1	290·9	+20·0	0	40	
		2726*a*	0·890	277·7	291·9	+ 8·2	22	195	513*c*
		2726*b*	0·832	275·5	285·3	+ 6·1	5	27	
		2732	0·472	246·2	254·9	− 8·3	0	8	
		2734	0·533	220·2	250·7	−21·2	0	4	
		2736	0·847	81·1	171·4	+ 9·1	3	21	538*f*
		2736	0·884	81·0	167·1	+ 9·3	0	8	
			0·815	75·2	175·1	+13·7			202
			0·985	67·5	148·9	+22·6			404
Nov. 12		Centre			(229·1)	(+2·9)	(55)	(544)	(2255)
317·502	HA,JG		0·890	240·7	274·0	−24·3			223
		2730	0·987	289·9	296·7	+20·1	15	201	538*f*
		2726*a*	0·968	277·8	291·3	+ 8·2	24	205	363*f*
		2734	0·670	233·2	250·8	−21·3	0	10	
		2736*a*	0·683	81·6	173·0	+ 7·7	0	10	
		2736	0·698	80·0	171·9	+ 8·9	5	15	64*c*
		2737*a*	0·957	115·7	145·8	−23·6	6	62	
		2737*b*	0·978	114·1	140·4	−22·8	0	46	358*c*
			0·942	66·7	146·2	+22·8			333
			0·968	77·7	140·3	+12·6			181
Nov. 13		Centre			(215·8)	(+2·7)	(50)	(549)	(2060)
318·407	CL,AR		0·877	247·3	262·1	−18·4			252
		2734	0·795	240·3	251·5	−21·3	0	49	438*c*
		2734	0·763	237·2	247·6	−22·5	6	21	
		2738	0·597	310·4	233·8	+24·9	0	8	
		2738	0·587	315·2	231·3	+26·9	0	6	
1892.				°	°	°			
318d·407	CL,AR	2736*a*	0·500	77·9	174·3	+ 8·2	1	6	
		2736	0·533	75·6	172·3	+ 9·8	0	12	
		2736	0·533	78·5	172·1	+ 8·3	0	2	186*c*
		2736	0·567	77·5	169·8	+ 9·1	6	28	
		2736	0·605	78·6	167·1	+ 8·9	5	50	
		2737*a*	0·876	118·8	147·1	−23·5	11	94	
		2737	0·896	115·5	143·7	−21·4	0	6	
		2737*b*	0·924	116·3	139·9	−23·0	0	31	552*c*
		2737	0·927	114·9	139·1	−21·8	8	36	
			0·867	64·5	145·6	+23·3			183
			0·933	74·1	135·2	+15·8			239
Nov. 14		Centre			(203·8)	(+2·6)	(37)	(349)	(1850)
319·232	HA,JG		0·952	242·3	261·5	−25·3			122
I.			0·905	249·8	255·4	−17·0			202
			0·890	258·4	254·7	− 9·1			106
			0·880	287·0	253·8	+16·1			124
			0·688	246·6	233·3	−13·9			216
		2734	0·898	243·6	253·1	−22·3	7	46	
		2734	0·880	240·8	250·0	−24·0	0	10	397*c*
		2734	0·854	240·5	246·7	−23·3	0	16	
		2736*a*	0·328	71·2	174·7	+ 8·4	9	28	
		2736	0·332	69·2	174·7	+ 9·1	0	5	
		2736	0·351	75·3	173·0	+ 7·5	0	3	
		2736	0·400	73·4	170·2	+ 8·9	3	11	
		2736	0·439	76·6	167·5	+ 8·0	0	16	
		2737*a*	0·787	122·6	146·9	−23·3	28	117	
		2737	0·813	120·6	143·7	−22·7	0	10	
		2737	0·815	119·2	143·1	−21·8	0	8	
		2737*b*	0·851	119·2	139·2	−23·0	0	38	463*c*
		2737	0·860	117·4	137·8	−21·9	19	82	
		2737	0·870	119·2	137·1	−23·6	0	5	
			0·818	59·3	141·5	+26·2			252
			0·884	75·6	131·2	+13·9			414
			0·952	122·0	125·4	−29·3			183
Nov. 15		Centre			(192·9)	(+2·5)	(66)	(395)	(2479)
320·203	CL,M		0·828	253·1	234·1	−12·5			864
I.			0·824	298·6	232·7	+24·6			352
			0·760	245·1	226·0	−17·0			440
		2734	0·978	247·1	255·9	−21·8	0	48	680*f*
		2736*a*	0·131	36·0	175·7	+ 8·5	8	41	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2734, Nov. 11–16. A few very small faint spots in an irregular group. The spots have become more distinct by Nov. 14.
Group 2735, Nov. 11. Two very small faint spots measured as one.
Group 2736, Nov. 12–21. A pair of small spots measured together, and a small spot following them on Nov. 12. The group has become an irregular stream, of which a small spot, *a*, is the leader, by Nov. 13. The stream undergoes the most constant changes, and *a* alone remains by Nov. 21.
Group 2737, Nov. 13–25. Two spots, *a* and *b*, on Nov. 13. By the succeeding day several spots have formed a stream between the large regular spot, *a*, and the small following spot, *b*. The intermediate spots form an almost continuous chain on Nov. 17, and *b* has become larger than *a*. *b* continues to increase in size and is a large composite spot on Nov. 20 and the succeeding day. The spots in the centre of the chain diminish, and by Nov. 23 *a* and *b*, respectively, are the principal spots of what are now two distinct groups.
Group 2738, Nov. 14. Two very small spots.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for day).
1892.				°	°	°			
320d·203	CL,M	2736	0·123	47·4	174·9	+ 7·2	0	3	
		2736	0·150	52·9	173·2	+ 7·5	0	10	
I.		2736	0·191	51·5	171·4	+ 9·1	12	63	
		2736	0·217	48·9	170·6	+10·5	7	40	
		2736	0·237	55·2	168·7	+10·1	0	7	
		2737*a*	0·657	131·3	147·6	−23·6	29	124	
		2737	0·692	128·0	143·9	−23·2	6	65	
		2737	0·714	127·7	142·1	−24·0	0	5	849*c*
		2737*b*	0·748	125·7	138·6	−24·0	7	30	
		2737	0·740	123·8	138·5	−22·5	10	53	
		2739	0·776	66·1	131·3	+19·9	0	11	302*f*
			0·746	57·8	136·1	+25·1			332
			0·873	124·1	125·4	−27·8			249
Nov. 16		Centre			(180·1)	(+2·4)	(79)	(500)	(4068)
321·315	HA,JG		0·941	295·4	234·5	+24·6			71
			0·907	249·7	228·2	−17·3			622
I.			0·818	297·8	217·5	+23·8			51
			0·850	228·2	214·3	−33·0			82
		2740	0·634	299·5	201·2	+20·0	0	20	
		2740	0·600	300·2	198·6	+19·4	4	16	159*c*
		2740	0·588	302·4	197·2	+20·3	0	7	
		2741	0·271	278·0	180·9	+ 4·4	0	5	
		2736*a*	0·223	298·1	176·8	+ 8·2	9	39	
		2736	0·179	312·4	173·1	+ 9·2	25	119	
		2736	0·172	327·2	170·8	+10·6	2	17	
		2736	0·150	330·8	169·6	+ 9·8	0	19	
		2737*a*	0·509	148·8	148·8	−23·5	24	73	
		2737	0·516	145·7	147·1	−23·0	6	30	
		2737	0·540	144·4	145·4	−23·8	10	77	
		2737	0·578	142·7	142·7	−25·2	4	7	
		2737	0·576	140·5	141·8	−24·1	9	70	328*c*
		2737	0·572	136·9	140·5	−22·5	0	7	
		2737*b*	0·604	137·1	138·7	−24·1	44	109	
		2737	0·593	134·8	138·4	−22·6	0	26	
Nov. 17		Centre			(165·4)	(+2·3)	(137)	(641)	(1313)
322·286	CL,JG		0·965	251·4	225·8	−17·3			508
			0·920	258·2	218·6	−10·0			143
I.			0·915	231·4	211·6	−33·6			246
			0·873	294·8	211·6	+22·6			259

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
322d·286	CL, JG	2740	0·776	292·6	201·7	+18·7	0	13	
		2740	0·752	295·8	198·8	+20·6	0	8	
I.		2740	0·734	293·9	197·7	+18·8	0	6	496*p*
		2740	0·719	296·4	195·9	+20·2	7	23	
		2736*a*	0·433	283·0	177·8	+ 7·6	5	23	
		2736	0·376	287·0	174·2	+ 8·3	14	60	
		2736	0·371	290·7	173·2	+ 9·6	0	9	
		2736	0·338	294·1	170·9	+10·0	0	6	
		2736	0·297	294·5	168·5	+ 9·2	0	6	
		2736	0·213	296·7	163·7	+ 7·7	0	3	
		2737	0·448	177·6	151·6	−24·3	0	3	
		2737	0·415	174·8	150·4	−22·1	0	2	
		2737*a*	0·444	174·8	150·2	−23·9	24	71	
		2737	0·441	170·2	148·0	−23·5	18	49	
		2737	0·454	169·1	147·3	−24·2	0	5	
		2737	0·430	168·0	147·2	−22·6	0	4	
		2737	0·462	167·0	146·2	−24·5	0	4	552*c*
		2737	0·443	164·8	145·5	−23·0	0	8	
		2737	0·473	163·2	144·1	−24·7	11	65	
		2737	0·456	160·2	143·1	−23·2	0	3	
		2737*b*	0·497	154·7	139·3	−24·5	64	244	
		2737	0·483	151·8	138·4	−23·0	0	6	
Nov. 18		Centre			(152·7)	(+2·2)	(143)	(621)	(2204)
323·461	M,JG		0·975	294·6	213·8	+24·4			97
			0·893	291·0	199·3	+19·6			352
		2736*a*	0·669	279·8	178·8	+ 8·0	7	38	
		2736	0·637	283·8	176·0	+10·3	0	12	
		2736	0·610	280·2	174·3	+ 7·8	0	4	
		2736	0·610	282·4	174·2	+ 9·1	0	10	
		2736	0·602	283·8	173·5	+ 9·9	0	7	
		2737*a*	0·481	207·7	151·2	−23·2	22	137	
		2737	0·464	203·0	148·5	−23·2	0	5	
		2737	0·445	203·0	148·0	−22·2	0	4	
		2737	0·449	201·9	147·6	−22·6	0	14	
		2737	0·457	200·6	147·2	−23·3	4	11	384*c*
		2737	0·435	198·9	145·9	−22·3	0	6	
		2737	0·457	195·7	144·9	−24·0	2	10	
		2737	0·435	196·2	144·7	−22·7	21	89	
		2737	0·434	187·7	140·8	−23·4	19	97	
		2737	0·416	182·6	138·4	−22·5	0	7	
		2737*b*	0·453	181·9	138·1	−24·8	54	289	454*c*
		2737	0·428	177·6	136·1	−23·2	0	8	
		2737	0·448	177·4	135·9	−24·5	0	4	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2739, Nov. 16. A small spot.
Group 2740, Nov. 17–18. A small irregular group of spots.
Group 2741, Nov. 17. A very small spot preceding Group 2736.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
323d·461	M,JG	2742*a*	0·777	50·3	93·1	+31·1	0	14	122*c*
		2742*b*	0·806	50·4	90·2	+32·2	3	24	
			0·961	115·4	66·0	−23·7			653
Nov. 19		Centre			(137·2)	(+2·0)	(132)	(790)	(2062)
324·257	AE,JG		0·954	289·6	198·6	+19·2			302
			0·809	291·5	179·0	+18·4			279
I.			0·789	236·5	172·8	−24·5			350
		2736*a*	0·808	277·8	180·3	+ 7·4	5	27	876*c*
		2736	0·779	280·7	177·4	+ 9·5	0	13	
		2737*a*	0·579	222·0	151·6	−23·7	43	170	
		2737	0·549	218·8	148·6	−23·5	4	17	
		2737	0·525	216·7	146·5	−23·0	15	97	
		2737	0·534	212·8	145·2	−24·8	1	6	
		2737	0·501	213·1	143·9	−22·9	0	4	
		2737*b*	0·497	202·0	138·6	−25·5	86	417	
		2737	0·453	199·8	136·3	−23·2	0	7	
		2742*a*	0·688	43·6	93·1	+31·3	1	9	190*c*
		2742*b*	0·727	45·2	89·3	+32·2	0	20	
		2743*a*	0·835	129·5	78·3	−30·8	0	6	124*c*
		2743*b*	0·872	128·2	73·4	−31·5	0	7	
			0·824	78·2	71·7	+10·8			195
			0·916	116·3	63·7	+23·1			764
Nov. 20		Centre			(126·7)	(+1·9)	(155)	(800)	(3080)
325·214	CL,AR		0·866	288·5	173·0	+16·9			396
			0·880	239·6	171·1	−25·4			509
I.		2736*a*	0·924	277·2	181·4	+ 7·3	0	26	1085*f*
		2737*a*	0·699	233·3	151·5	−23·2	33	205	
		2737	0·671	234·9	150·0	−21·2	7	38	
		2737	0·660	231·2	147·9	−22·8	24	156	713*c*
		2737	0·633	229·4	145·4	−22·7	7	21	
		2737	0·645	226·9	145·2	−24·5	0	5	
		2737	0·598	222·9	140·5	−24·3	10	78	
		2737*b*	0·586	218·2	137·7	−25·7	55	324	
		2737	0·544	219·6	136·1	−23·0	0	5	339*c*
		2737	0·547	215·9	134·7	−24·5	0	7	
		2742*a*	0·591	31·4	92·9	+31·8	0	8	226*c*
		2742*b*	0·642	35·2	88·0	+33·2	7	24	
		2744	0·806	72·2	61·6	+15·4	0	7	
		2745	0·991	111·8	37·5	−19·0	0	148	
		2745	0·989	107·6	37·3	−14·5	0	60	
1892.				°	°	°			
325d·214	CL,AR		0·763	134·4	74·8	−30·8			234
			0·870	128·4	61·2	−31·5			374
I.			0·849	118·3	60·2	−22·6			1326
			0·851	61·1	58·8	+25·3			220
			0·876	108·0	54·8	−14·8			513
Nov. 21		Centre			(114·1)	(+1·8)	(143)	(1112)	(5935)
326·325	AE,JG		0·914	278·4	165·2	+ 8·3			447
			0·753	295·9	145·5	+20·4			201
I.			0·669	288·2	140·0	+13·3			170
		2737*a*	0·835	240·4	151·4	−23·3	30	140	
		2737	0·821	242·3	150·5	−21·3	5	19	
		2737	0·810	239·9	148·7	−22·8	21	105	
		2737	0·789	238·3	146·2	−23·3	0	7	
		2737	0·758	235·8	142·5	−24·0	2	12	
		2737	0·736	234·4	140·2	−24·0	0	9	945*c*
		2737	0·746	231·9	140·0	−26·0	1	41	
		2737	0·717	232·8	138·0	−24·3	16	43	
		2737*b*	0·723	229·5	137·2	−26·6	50	198	
		2737	0·689	230·2	134·9	−24·7	0	22	
		2737	0·693	228·3	134·4	−26·0	0	7	
		2742*b*	0·548	19·1	87·1	+32·8	3	10	
		2743*a*	0·598	149·8	79·3	−29·4	11	18	
		2743*b*	0·647	145·6	74·4	−30·6	10	25	248*c*
		2743	0·665	145·6	73·3	−31·7	0	4	
		2745*a*	0·920	109·8	34·5	−17·4	22	63	
		2745*b*	0·939	113·9	32·1	−21·7	64	281	
		2745*c*	0·946	110·3	30·3	−18·6	54	156	1137*c*
		2745	0·965	110·8	26·5	−19·5	0	9	
		2745*d*	0·970	112·6	25·5	−21·4	13	170	
		2745	0·969	109·8	25·4	−18·7	0	19	
			0·729	135·5	63·4	−29·9			158
			0·771	120·2	53·8	−21·6			579
			0·872	74·2	39·5	+14·6			203
Nov. 22		Centre			(99·4)	(+1·7)	(302)	(1358)	(4089)
327·203	HA,JG		0·952	277·7	159·9	+ 7·8			218
			0·834	295·8	141·9	+22·2			273
I.		2737*a*	0·913	243·9	150·6	−22·9	39	198	
		2737	0·865	240·8	143·5	−24·0	0	5	856*c*
		2737	0·844	236·0	139·6	−27·1	0	12	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated, are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2742, Nov. 19–22. Two small spots, *a* and *b*. *b* alone is seen on Nov. 22.
Group 2743, Nov. 20–26. Two small spots, *a* and *b*, not seen on Nov. 21. A very small companion is seen on Nov. 22. *a* has disappeared by Nov. 23, but a very small companion is seen near *b* on Nov. 26.
Group 2744, Nov. 21. A very small spot.
Group 2745, Nov. 21–Dec. 2. Two spots close to the east limb on Nov. 21. Four large spots *a*, *b*, *c*, *d*, on Nov. 22, with several small companions. *b* and *c* are composite spots on Nov. 22, but *c* has broken up into several smaller spots by Nov. 25. The spots become scattered and smaller on the succeeding days, and *b* and *d* alone remain by Nov. 30. *d* has disappeared by Dec. 2.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
327d.203	HA,JG	2737*b*	0·823	236·1	137·3	−26·2	48	247	
		2737	0·803	237·2	135·7	−24·7	0	28	
I.		2746	0·821	286·0	142·1	+14·0	0	6	180*f*
		2743*a*	0·531	165·9	79·4	−29·3	2	6	
		2743*b*	0·577	158·0	73·4	−30·7	7	16	
		2745*a*	0·821	112·4	35·5	−17·2	15	46	
		2745*b*	0·845	117·4	34·1	−21·9	44	91	
		2745	0·835	111·3	33·8	−16·7	0	34	
		2745	0·856	118·3	33·2	−23·0	2	28	1382*f*
		2745	0·863	116·3	31·8	−21·5	17	105	
		2745*c*	0·862	112·3	31·0	−18·2	54	171	
		2745*d*	0·899	114·7	26·9	−21·3	26	126	
		2747	0·926	105·5	21·5	−13·7	8	64	629*c*
		2747	0·962	104·9	14·9	−13·8	0	37	
			0·930	70·9	20·4	+18·3			392
Nov. 23		Centre			(87·9)	(+1·6)	(262)	(1220)	(3930)
328·225	CL,AR		0·882	297·8	133·6	+25·0			302
			0·841	280·3	131·2	+ 9·4			219
I.		2737	0·920	242·1	137·8	−24·8	0	58	
		2737*b*	0·912	239·1	135·8	−27·2	22	191	1160*c*
		2737	0·904	241·2	135·2	−25·1	0	33	
		2746	0·939	284·1	143·8	+13·7	22	122	526*c*
		2746	0·906	283·1	138·8	+12·4	3	30	
		2743*b*	0·534	176·7	72·4	−30·7	2	17	
		2748	0·341	155·2	65·9	−16·6	0	6	
		2748	0·364	154·9	65·1	−17·8	0	2	
		2748	0·352	150·8	64·1	−16·5	0	4	
		2745*a*	0·684	117·4	35·1	−17·2	15	73	
		2745*b*	0·719	123·1	34·1	−22·0	34	120	
		2745	0·706	116·6	33·2	−17·3	0	14	
		2745	0·740	121·9	31·9	−21·9	13	103	
		2745	0·724	113·1	30·9	−15·4	0	8	231*c*
		2745	0·762	123·3	30·5	−23·7	0	10	
		2745*c*	0·742	116·7	30·3	−18·4	43	261	
		2745	0·793	122·2	27·3	−24·0	0	5	
		2745*d*	0·789	118·8	26·7	−21·3	17	100	
		2747	0·812	108·5	22·0	−14·1	6	46	
		2747	0·838	106·6	19·1	−13·1	4	24	
		2747	0·851	104·3	17·4	−11·4	0	8	1151*c*
		2747	0·872	106·9	15·3	−14·0	0	21	
		2749*a*	0·945	106·6	4·8	−15·2	55	361	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
328d.225	CL,AR		0·854	68·6	17·4	+18·9			366
I.			0·933	123·3	10·2	−30·1			681
Nov. 24		Centre			(74·4)	(+1·4)	(236)	(1617)	(4636)
329·202	HA,JG		0·948	281·3	132·6	+11·1			184
			0·926	292·8	127·9	+21·5			226
I. 3			0·911	304·4	123·2	+31·5			111
			0·879	232·9	116·4	−31·2			248
		2737	0·972	243·2	135·6	−25·7	0	38	494*c*
		2737*b*	0·972	240·5	135·1	−28·2	0	157	
		2743*b*	0·555	195·4	71·3	−30·9	1	10	59*c*
		2748	0·363	184·0	63·0	−19·8	0	4	
		2750	0·454	122·7	38·5	−13·0	0	3	
		2745*a*	0·535	126·6	34·9	−17·4	10	45	
		2745*b*	0·588	132·9	33·8	−22·4	46	127	
		2745	0·556	125·0	33·1	−17·4	0	22	486*c*
		2745	0·573	123·7	31·7	−17·3	1	13	
		2745	0·615	131·6	31·7	−22·9	8	38	
		2745	0·595	123·5	30·2	−18·0	13	69	
		2745	0·616	125·5	29·4	−19·8	26	86	
		2745	0·650	131·5	29·3	−24·3	0	12	
		2745	0·616	121·9	28·3	−17·8	0	8	
		2745*d*	0·662	125·8	26·4	−21·7	20	72	
		2747	0·669	113·3	22·3	−14·3	11	44	
		2747	0·692	110·6	20·0	−13·1	16	103	
		2747	0·712	110·0	18·3	−13·1	0	6	445*c*
		2747	0·731	109·4	16·6	−13·1	11	43	
		2747	0·746	110·9	15·6	−14·5	0	5	
		2747	0·777	110·7	12·9	−15·1	0	10	
		2751	0·792	127·0	16·2	−27·5	0	8	690*f*
		2749*a*	0·857	109·0	4·5	−15·4	106	318	795*f*
		2752	0·968	97·5	346·5	− 6·9	0	29	323*f*
			0·865	71·1	2·9	+16·9			607
Nov. 25		Centre			(61·5)	(+1·3)	(269)	(1270)	(4668)
330·303	AR,JG		0·875	289·6	106·7	+17·6			243
		2753	0·792	309·2	92·4	+30·8	0	5	271*c*
I.		2743*b*	0·633	214·5	71·4	−30·3	0	4	182*c*
		2743	0·642	212·2	70·6	−31·7	0	5	
		2748*a*	0·478	228·7	69·0	−17·2	6	12	
		2748	0·460	227·3	67·6	−17·0	2	6	
		2748	0·425	224·4	65·0	−16·4	0	13	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2746, Nov. 23–24. A very small spot on Nov. 23. The group has greatly increased in size by Nov. 24, and has become a large regular spot with a smaller spot following it at a considerable distance.
Group 2747, Nov. 23–Dec. 3. A number of spots, mostly small, in an irregular group *n f* of Group 2746. The group forms a stream on Nov. 24, 25, and 30, but changes its form continually. It gradually diminishes, and only two spots remain by Dec. 1, one of which has disappeared by the succeeding day.
Group 2748, Nov. 24–29. A few very small spots in an irregular group. The group forms a short stream, of which *a* is the leader, on Nov. 26. *a* alone is seen on the succeeding days.
Group 2749, Nov. 24–Dec. 5. A large regular spot, *a*. A small companion is seen on Nov. 26, 28, 29, and 30.
Group 2750, Nov. 25. A very small spot.
Group 2751, Nov. 25. A small spot.
Group 2752, Nov. 25–Dec. 2. A small regular spot.
Group 2753, Nov. 26. A very small spot.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
330d·303	AR,JG	2754	0·561	198·4	58·9	−30·9	0	5	105c
		2745a	0·366	147·8	35·3	−16·7	9	35	
I.		2745b	0·442	152·4	34·3	−21·8	34	114	
		2745	0·377	144·8	33·9	−16·7	0	2	
		2745	0·392	143·0	32·8	−17·0	0	4	
		2745	0·411	141·5	31·5	−17·5	5	26	
		2745	0·431	141·3	30·6	−18·4	3	18	
		2745	0·453	143·4	30·4	−20·1	17	79	
		2745	0·413	135·4	29·5	−15·9	0	5	
		2745	0·433	138·1	29·4	−17·6	0	19	
		2745	0·459	141·5	29·4	−19·8	0	6	253c
		2745	0·453	137·7	28·3	−18·4	0	5	
		2745	0·467	138·7	28·0	−19·3	0	6	
		2745d	0·502	139·9	26·8	−21·4	18	84	
		2747	0·472	123·2	23·1	−13·8	6	26	
		2747	0·467	118·7	22·4	−11·8	0	5	
		2747	0·487	119·4	21·3	−12·7	7	47	
		2747	0·501	118·4	20·3	−12·7	0	9	
		2747	0·544	115·5	16·9	−12·4	5	49	
		2749a	0·694	113·8	6·0	−15·3	65	264	427f
		2749	0·721	113·2	3·7	−15·6	2	13	
		2752	0·851	98·4	349·3	− 6·5	0	14	
		2755a	0·890	96·6	344·6	− 5·3	0	7	429c
		2755	0·932	99·2	338·9	− 8·1	0	9	
			0·748	132·5	7·9	−29·3			579
			0·930	71·7	339·5	+17·4			421
Nov. 26		Centre			(47·0)	(+1·2)	(179)	(896)	(2910)
331·492	CL,HA		0·872	306·7	86·6	+31·9			135
			0·812	228·4	76·7	−31·8			189
		2748a	0·662	243·1	69·2	−16·5	5	26	123c
		2745	0·430	192·3	37·0	−23·7	0	4	
		2745a	0·312	193·0	35·5	−16·6	6	22	
		2745b	0·397	189·5	35·3	−21·8	17	76	
		2745	0·347	185·2	33·2	−19·0	0	4	
		2745	0·387	184·4	33·1	−21·5	11	29	
		2745	0·320	180·7	31·5	−17·5	0	9	
		2745	0·359	179·9	31·2	−19·8	9	78	
		2745	0·425	177·2	30·0	−24·0	2	19	
		2745	0·320	175·5	29·8	−17·4	0	27	
		2745	0·422	171·9	27·6	−23·5	0	6	
		2745d	0·390	169·3	26·9	−21·4	12	50	
		2747	0·288	151·1	23·1	−13·5	6	26	
		2747	0·265	149·0	22·3	−12·0	0	3	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
331d·492	CL,HA	2747	0·281	145·0	21·9	−12·2	4	32	
		2747	0·324	133·3	17·4	−11·7	3	17	
		2747	0·369	138·8	16·8	−15·0	0	13	
		2749a	0·498	125·2	6·4	−15·6	54	269	
		2752	0·658	101·3	351·0	− 6·5	5	16	
		2755a	0·710	100·3	346·8	− 6·5	8	46	190c
		2755	0·793	101·4	339·7	− 8·3	0	6	206f
		2756	0·797	66·4	341·8	+19·3	0	10	380sf
		2757	0·979	72·5	313·5	+17·3	17	147	
		2757	0·989	73·7	310·1	+16·3	0	68	341f
Nov. 27		Centre			(31·3)	(+1·1)	(159)	(1003)	(1564)
332·214	CL,AE		0·954	301·5	91·8	+30·2			275
			0·918	307·7	83·5	+34·5			45
I.			0·821	230·5	69·1	−30·7			347
			0·733	309·1	61·9	+28·2			246
		2748a	0·767	246·2	68·9	−17·3	3	18	320c
		2745a	0·385	215·6	35·3	−17·2	5	13	
		2745b	0·450	207·2	34·6	−22·5	16	68	
		2745	0·361	212·5	33·4	−16·7	1	10	265c
		2745	0·446	204·1	33·2	−22·9	0	9	
		2745	0·420	204·6	32·6	−21·4	3	21	
		2745	0·398	202·6	31·2	−20·5	4	30	366c
		2745	0·354	203·4	30·3	−17·9	0	27	
		2745d	0·399	190·7	26·4	−22·0	11	37	
		2747	0·257	183·6	22·8	−13·8	4	23	
		2747	0·237	181·7	22·2	−12·7	4	24	193c
		2747	0·232	177·6	21·2	−12·4	1	9	
		2747	0·298	165·8	17·5	−15·7	0	7	
		2747	0·261	160·5	16·7	−13·2	0	6	
		2747	0·293	156·6	14·9	−14·5	0	5	
		2749a	0·390	138·9	6·4	−16·1	48	235	
		2749	0·414	135·9	4·4	−16·3	0	8	
		2752	0·524	105·3	351·3	− 7·1	7	19	
		2755a	0·594	102·9	346·3	− 6·8	14	66	301c
		2755	0·596	101·0	345·9	− 5·7	1	9	
		2755	0·692	103·7	339·1	− 8·6	0	8	
		2755	0·735	103·9	335·7	− 9·5	0	8	504c
		2757	0·950	73·1	310·7	+16·4	15	92	
		2757a	0·953	70·9	310·4	+18·4	14	82	
		2757	0·971	72·1	306·2	+17·6	0	290	
		2757	0·973	74·4	305·7	+15·4	0	145	325c
			0·802	72·7	329·8	+14·4			869

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

Group 2754, Nov. 26. A very small spot.
Group 2755, Nov. 26–Dec. 3. A group following Group 2752. A few small spots, of which *a* is the leader, in a short stream. The group undergoes many changes, *a* has disappeared by Dec. 1. A larger spot, *b*, has formed in the centre of the stream by Nov. 30, and leads the group on Dec. 1.
Group 2756, Nov. 27. A small faint spot.
Group 2757, Nov. 27–Dec. 8. A large but irregular group. *a*, the north preceding spot, remains distinct and regular throughout the appearance of the group. The remainder of the group consists chiefly of a large composite spot which continually changes its shape, and is measured as several spots. On Dec. 3 the group consists of a very irregular stream, the last spot of which is the largest. The group rapidly diminishes in size on the succeeding days.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
332d.214	CL,AE		0·879	110·7	322·4	−17·6			304
I.			0·928	78·9	314·1	+10·7			231
Nov. 28		Centre			(21·8)	(+1·0)	(151)	(1269)	(4591)
333·173	AR,JG		0·838	238·9	61·0	−25·1			561
			0·755	229·2	49·4	−28·9			215
I.		2748a	0·886	250·4	69·3	−16·9	0	9	427c
		2745a	0·530	234·8	35·6	−17·0	0	16	
		2745b	0·570	226·1	35·1	−22·5	15	61	
		2745	0·533	226·5	33·1	−20·7	0	10	219c
		2745	0·550	222·8	32·7	−23·0	0	12	
		2745	0·512	224·8	31·4	−20·5	4	20	
		2745d	0·475	216·7	26·5	−21·5	9	30	
		2747a	0·351	225·0	23·5	−13·5	6	16	
		2747	0·336	226·5	23·2	−12·5	3	11	
		2747	0·330	223·9	22·3	−13·0	0	10	
		2747	0·320	224·6	22·0	−12·4	0	4	
		2747	0·324	217·1	20·4	−14·1	0	5	
		2747	0·295	221·4	20·2	−12·0	7	21	
		2747	0·313	215·3	19·5	−14·0	0	4	
		2747	0·273	215·8	18·2	−12·0	0	5	
		2749a	0·290	174·3	7·1	−15·9	52	213	249c
		2749	0·284	168·6	5·5	−15·3	1	28	
		2758	0·362	157·8	0·5	−18·7	0	15	
		2752	0·305	117·4	353·0	− 7·3	7	13	
		2755a	0·393	109·9	347·0	− 6·9	7	30	
		2755	0·454	114·8	344·1	−10·3	12	31	
		2755	0·477	110·2	342·0	− 8·8	0	22	311c
		2755	0·493	110·2	341·0	− 9·1	0	8	
		2757	0·851	70·6	312·0	+16·8	0	107	
		2757a	0·858	68·4	311·6	+18·8	14	98	624c
		2757	0·883	68·4	308·5	+19·3	0	37	
		2757	0·888	70·7	307·6	+17·4	54	359	
		2759	0·973	70·1	292·9	+19·5	0	60	
		2760a	0·979	82·6	290·8	+ 7·4	0	117	
			0·676	68·1	328·4	+15·1			162
			0·833	76·9	313·2	+11·3			215
Nov. 29		Centre			(8·8)	(+0·8)	(191)	(1382)	(2983)
334·421	AR,JG		0·955	251·4	64·1	−17·5			278
			0·897	240·4	52·7	−25·9			420
		2745b	0·735	238·4	35·0	−22·1	7	44	256s
		2745d	0·640	234·8	26·7	−21·2	3	17	111c

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
334d.421	AR,JG	2747	0·562	245·4	24·2	−12·9	0	11	
		2747	0·535	243·0	21·9	−13·4	0	7	
		2747	0·521	246·3	21·7	−11·5	1	11	121c
		2747	0·521	241·9	20·8	−13·5	0	8	
		2747	0·503	238·9	19·0	−14·4	0	9	
		2747	0·480	237·0	17·2	−14·4	0	13	
		2761	0·401	311·4	10·9	+16·0	0	13	
		2749a	0·375	221·4	7·6	−15·6	35	202	270c
		2749	0·350	219·8	6·1	−14·9	0	13	
		2752	0·140	190·9	354·2	− 7·2	0	15	
		2755a	0·161	145·4	347·4	− 6·9	0	4	
		2755	0·182	146·2	346·9	− 8·0	0	10	
		2755b	0·217	145·0	345·5	− 9·5	8	27	
		2755	0·218	132·3	343·4	− 7·7	0	6	
		2755	0·253	138·7	343·0	−10·2	2	6	
		2755	0·250	124·1	340·7	− 7·4	0	3	
		2757a	0·696	64·0	311·7	+18·3	8	75	308c
		2757	0·715	66·4	309·6	+17·1	32	527	
		2759	0·872	68·2	293·9	+19·2	15	46	479f
		2760a	0·876	82·3	291·9	+ 7·1	18	105	287c
		2762a	0·984	74·8	273·4	+15·1	0	73	229c
		2763a	0·984	80·7	273·2	+ 9·3	0	132	
		Centre			(352·7)	(+0·7)	(129)	(1377)	(2959)
Nov. 30			0·948	241·0	49·1	−27·1			468
			0·836	248·6	35·0	−17·3			505
335·343	CL,AE	2745b	0·847	242·6	34·9	−22·5	12	39	649sf
I.		2745d	0·766	241·1	26·4	−21·2	0	7	
		2747	0·712	250·3	24·0	−13·4	0	4	
		2747	0·693	251·8	22·7	−12·0	2	11	
		2749a	0·518	237·0	7·3	−15·8	50	241	187c
		2764a	0·369	221·9	355·3	−15·3	0	5	
		2752	0·286	241·4	355·2	− 7·3	0	6	
		2755b	0·199	208·0	346·0	− 9·5	6	41	160c
		2755	0·190	188·4	342·2	−10·2	0	9	
		2757	0·546	58·5	311·6	+17·0	10	69	
		2757a	0·561	56·2	311·2	+18·7	12	78	
		2757	0·572	60·5	309·4	+16·9	3	68	
		2757	0·601	59·5	307·7	+18·2	26	279	409c
		2759	0·774	64·6	292·8	+19·8	0	63	519f
		2760	0·769	81·1	290·8	+ 7·3	17	118	159c
		2762a	0·932	72·4	272·9	+16·6	0	19	310f
		2763a	0·927	79·7	273·1	+ 9·8	10	84	777c
		2763	0·966	79·7	265·9	+10·1	0	72	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2758, Nov. 29 A small spot following Group 2749.
Group 2759, Nov. 29–Dec. 8. A regular spot.
Group 2760, Nov. 29–Dec. 10. A regular spot, *a*. Small companions are seen on Dec. 2 and 3.
Group 2761, Nov. 30. A cluster of very small faint spots.
Group 2762, Nov. 30–Dec. 10. A regular spot, *a*. A very faint companion is seen on Dec. 4. A number of scattered faint spots are seen near *a* on Dec. 9, most of which have again disappeared by the succeeding day.
Group 2763, Nov. 30–Dec. 6. A small regular spot, *a*, with faint companions on Dec. 1 and 2. The group has broken up into an irregular stream of small faint spots by Dec. 4.
Group 2764, Dec. 1–5. A small regular spot, *a*, with companions on Dec. 2 and 3.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
335d·343	CL, AE		0·831	107·3	286·0	−14·0			155
I.			0·892	114·3	280·2	−21·2			160
Dec. 1		Centre			(340·6)	(+0·6)	(148)	(1213)	(4458)
336·45	CL, HA		0·886	235·2	23·1	−30·1			190
			0·790	233·6	11·7	−27·7			288
		2745*b*	0·945	246·5	34·9	−22·0	0	13	601*c*
		2747	0·844	254·4	22·3	−12·8	0	13	208*c*
		2749*a*	0·697	247·2	7·6	−15·3	45	197	
		2765	0·558	246·2	357·4	−12·6	0	6	
		2764	0·554	245·0	356·9	−13·1	0	6	
		2764*a*	0·549	239·6	355·3	−15·7	0	15	
		2752	0·520	256·2	356·4	− 6·7	0	2	
		2755	0·392	243·3	346·7	− 9·7	0	8	
		2755	0·355	236·9	343·5	−10·7	3	13	89*c*
		2755	0·320	237·3	341·8	− 9·5	5	26	
		2757	0·366	39·3	312·0	+16·8	3	74	
		2757*a*	0·391	38·3	311·3	+18·2	10	61	
		2757	0·423	41·0	309·0	+18·9	0	45	206*c*
		2757	0·408	45·2	308·5	+17·0	26	212	
		2759	0·609	57·6	293·1	+19·3	8	32	156*c*
		2760	0·544	71·8	294·5	+10·1	0	5	
		2760	0·569	72·8	292·7	+10·0	0	11	165*c*
		2760*a*	0·575	79·1	291·5	+ 6·6	18	109	
		2760	0·585	74·8	291·3	+ 9·2	1	9	
		2766	0·724	60·9	283·6	+20·9	0	10	211*f*
		2762*a*	0·789	70·8	275·6	+15·3	6	42	
		2763	0·792	78·7	274·3	+ 9·2	6	49	
		2763	0·823	79·0	271·3	+ 9·3	0	12	642*c*
		2763	0·851	78·8	268·3	+ 9·7	0	32	
		2767	0·855	72·5	268·6	+15·1	0	18	
		2768*a*	0·894	75·8	263·5	+12·8	0	72	
		2769*a*	0·946	76·0	255·6	+13·4	0	44	
		2770	0·960	113·0	254·0	−21·9	33	240	506*c*
			0·918	121·3	263·3	−28·2			105
			0·933	108·5	258·5	−17·0			244
			0·956	100·1	253·6	− 9·5			215
Dec. 2		Centre			(326·0)	(+0·4)	(164)	(1376)	(3826)
337·301	HA, JG		0·936	245·8	22·0	−22·4			570
			0·925	279·1	22·0	+ 8·5			118
I.			0·861	293·4	11·9	+20·1			512
			0·858	235·9	8·5	−28·5			549
		2747	0·939	255·9	23·8	−13·1	0	35	525*f*
1892.				°	°	°			
337d·301	HA, JG	2749*a*	0·820	250·4	8·0	−15·7	50	180	346*c*
I.		2764	0·719	249·1	358·6	−14·6	2	12	235*c*
		2764*a*	0·684	246·3	355·2	−15·7	12	25	
		2755*b*	0·568	250·9	347·7	−10·4	0	10	
		2755	0·532	247·6	344·8	−11·4	1	9	151*c*
		2755	0·501	250·3	343·2	− 9·4	0	3	
		2757	0·291	7·5	312·5	+17·0	4	13	
		2757*a*	0·316	11·1	311·1	+18·3	8	40	
		2757	0·297	12·5	311·0	+17·1	3	35	
		2757	0·286	17·3	309·7	+16·1	2	12	
		2757	0·340	16·3	309·0	+19·3	3	20	
		2757	0·316	19·8	308·4	+17·5	24	122	
		2759	0·483	46·0	293·2	+19·8	7	21	82*c*
		2760	0·400	65·7	293·2	+ 9·7	0	3	
		2760*a*	0·410	73·8	291·5	+ 6·8	19	85	123*c*
		2766	0·593	52·1	284·7	+21·5	3	13	
		2766	0·606	55·3	282·8	+20·4	0	13	206*c*
		2762*a*	0·645	67·4	277·0	+14·5	28	82	215*c*
		2763*a*	0·668	75·9	273·9	+ 9·6	0	16	
		2767	0·745	69·1	268·9	+15·6	0	11	
		2771	0·779	112·3	266·1	−17·0	0	6	226*c*
		2768	0·769	74·5	265·7	+12·0	0	21	
		2768*a*	0·778	72·8	265·2	+13·4	15	77	
		2768	0·793	73·0	263·7	+13·6	3	12	
		2768	0·803	72·8	262·8	+13·9	4	15	
		2772	0·843	97·0	257·8	− 5·7	0	8	102*f*
		2773	0·849	103·2	257·7	−11·0	5	30	188*f*
		2769	0·856	73·0	257·2	+14·7	0	15	
		2769*a*	0·862	74·5	256·3	+13·5	6	53	833*c*
		2770*a*	0·886	114·9	255·1	−21·7	27	104	
		2770*b*	0·907	114·1	252·1	−21·6	28	163	873*c*
			0·954	73·1	243·2	+16·2			212
			0·956	101·9	240·3	−11·4			174
Dec. 3		Centre			(314·8)	(+0·3)	(254)	(1264)	(6240)
338·47	CL, JG		0·947	240·3	7·6	−27·9			682
			0·917	288·8	4·4	+17·2			429
			0·749	256·7	346·8	− 9·9			240
		2749*a*	0·938	253·3	7·9	−15·6	30	194	
		2764*a*	0·841	251·3	354·9	−15·6	5	32	616*c*
		2757	0·362	322·9	312·4	+16·8	1	13	
		2757*a*	0·368	329·2	310·7	+18·5	7	39	
		2757	0·333	330·9	309·0	+17·0	4	14	189*c*
		2757	0·358	335·8	308·2	+19·1	0	5	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2765, Dec. 2. A very small faint spot.
Group 2766, Dec. 2–5. A small spot. A companion is seen on Dec. 3.
Group 2767, Dec. 2–3. A small spot following Group 2762, on Dec. 2. Two spots, which are measured as one, on Dec. 3.
Group 2768, Dec. 2–11. A large regular spot, *a*, with three small companions on Dec. 3 and on Dec. 8.
Group 2769, Dec. 2–8. A small regular spot, *a*. Small companions are seen on Dec. 3, 4, 5 and 8.
Group 2770, Dec. 2–12. Two regular spots, *a* and *b*, measured as one spot on Dec. 2. Two small spots are seen *n p* of *b* on Dec. 9, and one very small faint spot on Dec. 10.
Group 2771, Dec. 3. A very small spot.
Group 2772, Dec. 3–6. A group of very small faint spots on Dec. 3. The group forms a short irregular stream on the succeeding days.
Group 2773, Dec. 3–12. Two small spots measured as one spot, *a*, on Dec. 3. The group has largely increased by the succeeding day, and consists of three spots, *a*, *b* and *c*, with some small companions. *b* has become a very large regular spot by Dec. 4. Small spots continually break off from the following side of *a*, which is not so large as *b*. *a* and *b* continue to move away from each other, and the connecting stream of small spots diminish in size on Dec. 4 and the succeeding days. *c* has disappeared by Dec. 6.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
338d.478	CL,JG	2757	0·315	331·6	308·2	+16·2	0	6	
		2757	0·324	333·9	307·8	+17·0	10	55	
		2774*a*	0·443	353·5	302·5	+26·1	4	17	57*c*
		2774	0·416	359·8	299·4	+24·6	1	24	
		2759	0·352	16·9	293·1	+19·7	7	14	
		2760*a*	0·173	50·0	291·7	+ 6·5	15	97	
		2775*a*	0·279	143·1	289·5	−12·7	10	43	
		2775	0·286	135·9	287·6	−11·7	0	4	317*c*
		2775	0·283	131·6	286·9	−10·7	0	4	
		2775*b*	0·308	133·9	286·2	−12·2	6	33	
		2766	0·408	31·4	286·2	+20·4	0	5	
		2762*a*	0·422	53·7	278·8	+14·5	14	37	
		2762	0·436	57·6	277·1	+13·6	0	7	
		2763	0·403	69·9	276·9	+ 8·1	0	7	
		2763	0·439	70·0	274·7	+ 8·7	0	9	
		2763	0·458	69·3	273·7	+ 9·4	0	7	195*c*
		2763	0·512	70·0	270·2	+10·1	0	24	
		2768*a*	0·581	67·5	266·0	+12·9	25	99	
		2768	0·602	69·1	264·3	+12·4	2	11	
		2772	0·611	98·9	262·1	− 5·3	0	3	
		2772	0·627	99·3	261·0	− 5·7	0	8	80*c*
		2772	0·649	98·8	259·3	− 5·6	0	8	
		2773*c*	0·653	105·6	259·8	−10·0	5	23	
		2773*a*	0·673	106·6	258·4	−11·0	7	42	312*c*
		2773	0·694	105·7	256·6	−10·7	0	7	
		2773*b*	0·723	106·5	254·4	−11·7	6	24	
		2769	0·685	70·8	257·9	+13·1	0	7	
		2769*a*	0·704	71·1	257·5	+13·2	1	13	
		2770*a*	0·744	120·5	255·7	−22·0	12	69	656*f*
		2770*b*	0·773	118·8	252·7	−21·7	12	129	
		2776*a*	0·814	66·6	247·4	+18·9	4	19	437*s*
		2777*a*	0·950	106·6	228·6	−15·7	3	34	500*c*
		2777*b*	0·964	105·8	225·5	−15·2	0	20	
			0·813	72·1	246·4	+14·5			286
			0·863	105·7	240·9	−13·4			199
			0·976	112·7	223·2	−22·1			255
Dec. 4		Centre			(299·3)	(+0·1)	(191)	(1206)	(5450)
339·300	HA,JG		0·964	289·2	1·9	+18·5			237
I.			0·942	240·3	355·8	−27·8			299
			0·830	257·5	343·6	−10·3			372
			0·801	289·5	339·8	+15·5			292
		2749*a*	0·988	253·7	8·9	−16·1	0	404	819*s*
		2764*a*	0·927	252·5	355·1	−16·2	0	47	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
339d.300	HA,JG	2757	0·496	306·6	312·9	+17·1	0	9	
		2757	0·476	305·6	312·0	+16·0	0	3	
I.		2757*a*	0·477	311·5	310·4	+18·4	4	32	
		2757	0·460	312·0	309·4	+17·9	0	5	236*c*
		2757	0·446	309·6	309·3	+16·5	7	27	
		2757	0·428	309·9	308·3	+15·9	1	10	
		2757	0·435	311·8	308·1	+16·8	2	12	
		2774	0·494	333·3	302·7	+26·1	3	11	
		2759	0·343	347·4	292·9	+19·5	3	13	74*c*
		2760*a*	0·123	332·9	291·6	+ 6·3	13	106	
		2775*a*	0·224	190·1	290·7	−12·7	6	62	
		2775	0·241	187·7	290·3	−13·8	0	3	
		2775	0·210	184·9	289·4	−12·0	0	7	
		2775	0·195	181·9	288·8	−11·2	7	22	
		2775	0·226	166·8	285·4	−12·7	14	73	
		2775*b*	0·197	163·1	285·1	−10·8	0	5	
		2766	0·337	6·4	286·1	+19·5	0	4	
		2762*a*	0·301	30·1	279·4	+15·0	9	31	
		2763	0·316	56·8	272·9	+ 9·9	0	5	
		2768*a*	0·433	58·5	266·2	+13·0	20	88	208*c*
		2772	0·449	102·3	262·4	− 5·5	11	26	171*c*
		2772	0·500	102·6	259·1	− 6·3	1	18	
		2773*c*	0·493	111·0	260·6	−10·1	4	39	
		2773*a*	0·518	110·7	259·0	−10·5	8	69	
		2773	0·539	111·9	257·8	−11·5	2	11	346*c*
		2773	0·571	111·3	255·6	−12·0	0	8	
		2773*b*	0·590	111·6	254·4	−12·5	30	86	
		2769*a*	0·543	65·2	258·1	+13·1	0	13	142*c*
		2769	0·573	66·0	256·0	+13·4	0	16	
		2770*a*	0·637	126·5	255·0	−22·2	20	60	518*f*
		2770*b*	0·664	124·2	252·3	−21·8	32	139	
		2776*a*	0·696	62·1	248·0	+19·0	11	38	
		2776	0·710	62·4	246·8	+19·2	0	5	
		2776	0·754	66·1	242·2	+17·7	0	2	333*s*
		2776	0·762	64·8	241·6	+19·3	0	3	
		2777*a*	0·883	108·2	227·9	−16·0	0	14	735*s*
		2777*b*	0·898	106·8	225·7	−15·0	5	15	
			0·773	107·7	239·3	−13·5			252
Dec. 5		Centre			(288·4)	(+0·0)	(213)	(1541)	(5034)
340·216	CL,HA		0·915	259·4	341·9	− 9·7			388
			0·834	289·0	331·1	+15·7			420
I.		2757*a*	0·604	300·8	309·2	+17·9	5	29	166*n*
		2757	0·590	298·3	308·9	+16·1	1	15	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2774, Dec. 4–5. A small regular spot, *a*. A companion spot is seen on Dec. 4.
Group 2775, Dec. 4–10. A sudden outburst consisting of a short stream of small spots, of which *a* and *b*, the first and last, are the largest. *b* has completely broken up by Dec. 7, and a long curved stream of very small spots following *a* is seen on the succeeding day. The preceding spot, *a*, alone is left by Dec. 10.
Group 2776, Dec. 4–9. A regular spot, *a*. Small following spots are seen on Dec. 5–6; 8 and 9. A stream of very small faint spots on Dec. 9.
Group 2777. Dec. 4–15. Two small regular spots, *a* and *b*, are seen from Dec. 4 to Dec. 8. Another small spot, *c*, is seen on Dec. 9, which has become a very long narrow spot by the succeeding day. Several small spots break off from it, and by Dec. 11 it has become a large regular spot. Its companions have disappeared by Dec. 13.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
340d.216	CL,HA	2759	0·436	321·0	293·2	+19·6	2	12	
		2760a	0·287	291·5	291·8	+ 5·9	17	110	
I.		2775a	0·350	230·1	292·2	−13·1	13	41	
		2775	0·303	226·7	289·3	−12·1	0	33	
		2775	0·294	219·5	287·3	−13·2	2	9	
		2775	0·257	219·5	285·9	−11·5	3	16	
		2775b	0·270	213·9	285·2	−13·0	12	60	
		2762a	0·268	346·6	280·0	+15·0	6	21	
		2763	0·161	353·0	277·4	+ 9·0	0	12	
		2763	0·146	3·7	275·8	+ 8·2	0	5	
		2763	0·164	14·6	273·9	+ 9·0	0	12	
		2768a	0·275	35·7	266·9	+12·7	16	74	
		2772	0·240	113·4	263·6	− 5·6	3	8	
		2772	0·256	111·0	262·5	− 5·3	0	9	108c
		2772	0·269	113·3	262·0	− 6·2	0	2	
		2772	0·303	111·8	259·9	− 6·6	1	21	
		2773c	0·305	128·1	262·2	−10·9	10	33	
		2773a	0·332	123·3	260·0	−10·6	33	148	197c
		2773	0·390	124·3	257·1	−12·8	0	19	
		2773b	0·428	122·2	254·6	−13·2	38	151	
		2769a	0·377	53·1	258·4	+12·9	0	8	
		2770a	0·506	138·4	255·1	−22·3	13	74	227c
		2770b	0·535	135·0	252·3	−22·2	36	154	
		2776a	0·553	54·7	248·0	+18·5	10	31	
		2777a	0·766	111·2	228·5	−16·1	2	10	249c
		2777b	0·780	109·5	226·9	−15·1	3	14	
		2778a	0·947	68·4	206·7	+20·3	0	25	574c
			0·853	116·6	220·9	−22·5			500
Dec. 6		Centre			(276·3)	(−0·1)	(226)	(1156)	(2829)
341·540	HA,JG		0·947	286·9	329·1	+15·9			133
			0·795	290·7	309·4	+16·2			317
		2757	0·821	292·1	311·7	+17·8	0	6	
		2757a	0·783	293·0	307·9	+17·7	0	9	
		2759	0·618	303·8	291·9	+19·9	0	6	106c
		2760a	0·545	281·5	291·2	+ 6·0	13	83	
		2775a	0·598	247·5	293·4	−13·4	6	27	93c
		2775	0·531	249·1	289·1	−11·1	0	7	
		2775	0·473	243·7	284·5	−12·3	0	19	
		2775	0·465	246·4	284·5	−10·8	0	5	
		2762a	0·435	306·7	280·0	+14·8	4	16	
		2768a	0·259	330·9	266·3	+12·8	9	47	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
341d.540	HA,JG	2773a	0·189	199·2	262·5	−10·4	15	148	
		2773	0·173	189·7	260·6	−10·0	0	8	
		2773	0·179	181·9	259·2	−10·4	0	9	
		2773	0·192	171·5	257·3	−11·1	0	12	
		2769a	0·223	4·0	258·0	+12·6	0	4	
		2773b	0·247	160·5	254·1	−13·6	23	144	
		2770a	0·381	170·1	254·9	−22·2	13	51	
		2770b	0·394	163·5	252·0	−22·3	24	124	
		2776a	0·363	29·9	248·0	+18·1	5	15	
		2777a	0·562	120·0	228·5	−16·5	0	6	
		2777b	0·567	117·3	227·6	−15·2	1	8	
		2778a	0·810	65·3	207·7	+19·6	0	34	458c
		2779a	0·893	67·8	197·8	+19·6	0	25	
			0·958	83·1	186·0	+ 6·6			306
			0·977	69·8	182·9	+19·2			194
Dec. 7		Centre			(258·9)	(−0·2)	(113)	(813)	(1607)
342·302	CL,AE	2757	0·880	289·5	308·8	+16·9	0	9	
		2757a	0·878	290·9	308·3	+18·1	0	24	713c
I.		2757	0·877	292·1	308·0	+19·1	0	13	
		2759	0·735	298·0	292·4	+19·9	0	4	115c
		2760a	0·684	279·4	291·5	+ 6·2	13	99	277c
		2775a	0·723	251·2	293·5	−13·7	18	55	
		2775	0·698	252·5	291·7	−12·3	0	3	
		2775	0·689	251·4	290·8	−12·9	0	4	
		2775	0·668	253·3	289·5	−11·3	0	5	368c
		2775	0·644	253·5	287·7	−10·7	1	7	
		2775	0·616	252·8	285·5	−10·7	0	16	
		2775	0·617	250·3	285·2	−12·2	3	20	
		2775	0·605	251·6	284·6	−11·2	1	8	
		2762a	0·574	296·9	280·7	+14·8	5	14	
		2768	0·407	309·2	267·8	+14·5	0	6	
		2768	0·396	310·4	267·0	+14·5	0	4	255c
		2768a	0·378	308·2	266·6	+13·2	19	100	
		2768	0·385	312·5	265·9	+14·7	2	5	
		2773a	0·314	236·5	264·3	−10·3	29	142	333c
		2773	0·281	235·2	262·4	− 9·5	14	52	
		2773	0·234	215·4	256·8	−11·3	0	3	217c
		2773b	0·245	202·1	254·3	−13·4	28	153	
		2769	0·312	323·5	259·9	+14·2	0	4	
		2769a	0·287	321·5	259·4	+12·7	0	2	
		2770a	0·386	194·6	254·9	−22·2	10	55	481c
		2770b	0·378	187·0	251·7	−22·3	22	142	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2778, Dec. 6–17. A regular spot, *a*, for the first three days. On Dec. 9 a long curved stream in which spots *a*, *b*, *c* may be distinguished; *a* has disappeared by Dec. 10, and *c* by Dec. 13. The spots are very irregular in shape on Dec. 12, one spot, *d*, being nearly in the form of a semicircle. *b* has disappeared at the west limb by Dec. 17, *d* alone remains.
Group 2779, Dec. 7–10. A regular spot, *a*, closely following Group 2778. A small companion is seen on Dec. 9 and 10.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
342d·302	CL,AE	2776*a*	0·322	1·7	248·3	+18·4	3	10	
		2776	0·333	6·3	246·7	+19·0	0	3	
I.		2777*a*	0·419	125·5	228·4	−14·3	7	27	
		2777*b*	0·437	129·0	228·3	−16·2	0	2	
		2778*a*	0·706	59·6	208·5	+20·6	20	49	
		2778	0·723	61·5	206·6	+19·9	0	4	
		2778*b*	0·751	62·8	203·8	+19·8	5	26	927*c*
		2779*a*	0·821	64·4	196·8	+20·6	9	35	
		2780	0·918	66·1	184·6	+21·7	0	7	
		2780	0·929	67·4	182·5	+20·8	0	11	
		2780	0·957	66·3	177·6	+22·5	0	24	425*c*
			0·912	80·4	183·7	+ 8·6			477
			0·959	115·6	177·1	−24·6			177
Dec. 8		Centre			(248·9)	(−0·3)	(209)	(1147)	(4765)
343·510	CL,AR		0·974	286·5	308·9	+15·9			899
			0·874	296·0	290·9	+22·2			342
			0·818	248·9	288·9	−17·4			323
		2760*a*	0·857	277·4	291·5	+ 6·0	13	78	284*c*
		2775*a*	0·881	254·7	293·8	−13·7	14	50	
		2775	0·831	256·8	288·4	−11·2	0	7	466*c*
		2775	0·802	255·3	285·3	−12·0	0	4	
		2762*a*	0·766	289·6	281·0	+14·5	0	7	
		2762	0·749	287·2	279·9	+12·4	7	34	
		2762	0·739	292·5	278·1	+16·0	0	8	
		2762	0·715	285·0	277·4	+10·3	0	6	
		2762	0·712	288·0	276·7	+12·3	0	4	
		2781	0·713	231·0	271·3	−26·9	1	11	
		2768*a*	0·589	292·7	266·7	+12·7	14	87	
		2773*a*	0·573	252·5	266·6	−10·3	28	195	
		2773	0·542	252·9	264·6	− 9·6	1	11	
		2773	0·524	252·4	263·3	− 9·5	2	19	267*c*
		2773	0·500	249·8	261·4	−10·4	0	5	
		2773	0·475	247·3	259·4	−11·0	0	6	
		2773*b*	0·428	237·7	254·8	−13·7	19	147	
		2770*a*	0·510	223·4	255·1	−22·2	9	47	
		2770	0·473	221·4	252·5	−21·2	3	12	
		2770*b*	0·477	218·5	251·7	−22·3	23	120	197*c*
		2770	0·491	213·5	250·3	−24·6	0	6	
		2776	0·404	320·7	248·5	+17·6	0	3	
		2776*a*	0·397	326·1	246·5	+18·7	0	3	
		2776	0·418	329·3	246·4	+20·6	0	6	
		2777*c*	0·258	168·6	230·0	−15·1	1	9	
1892.				°	°	°			
343d·510	CL,AR	2777	0·276	167·7	229·5	−16·1	0	7	
		2777	0·251	164·5	229·0	−14·4	0	2	
		2777	0·292	160·6	227·2	−16·4	1	19	
		2777	0·341	153·2	223·7	−18·1	0	3	
		2778	0·512	44·2	210·6	+21·0	0	3	
		2778*a*	0·513	46·3	209·8	+20·2	1	12	
		2778	0·529	48·6	208·1	+19·9	0	15	
		2278*b*	0·564	52·2	204·9	+19·7	0	13	
		2278*c*	0·576	54·8	203·3	+18·9	0	10	
		2779	0·639	53·8	199·4	+21·7	0	23	
		2779*a*	0·646	57·2	197·8	+20·0	4	18	
		2780	0·775	62·2	186·0	+20·7	5	41	
		2780	0·789	63·5	184·4	+20·3	0	8	
		2780	0·803	62·8	183·2	+21·2	5	64	504*c*
		2780	0·850	63·0	178·2	+22·3	4	15	
		2782*a*	0·992	76·9	150·7	+13·0	23	259	421*f*
			0·798	74·1	181·4	+12·3			368
			0·869	116·7	175·6	−23·2			374
			0·927	66·4	167·3	+21·5			137
			0·922	77·9	166·6	+11·0			265
Dec. 9		Centre			(233·0)	(−0·5)	(178)	(1397)	(4847)
344·431	HA,JG		0·923	249·7	286·8	−18·9			43*f*
			0·882	297·2	279·3	+23·4			270
		2760*a*	0·947	276·9	291·6	+ 6·4	8	52	144*c*
		2775*a*	0·962	256·4	294·4	−13·2	4	48	396*f*
		2762	0·879	285·3	281·1	+13·1	2	18	393*f*
		2781	0·794	234·7	267·7	−27·7	0	30	
		2781	0·838	235·9	272·7	−28·4	14	102	265*c*
		2768*a*	0·745	287·7	267·3	+12·7	4	74	168*c*
		2773*a*	0·752	275·0	268·7	−10·1	24	153	
		2773	0·721	256·7	266·0	− 9·9	0	10	
		2773	0·679	255·3	262·5	−10·4	0	12	
		2773	0·659	255·3	261·0	−10·1	0	2	452*c*
		2773	0·657	252·5	260·4	−11·8	0	9	
		2773	0·610	246·6	256·0	−14·4	0	7	
		2773*b*	0·597	247·8	255·3	−13·5	14	104	
		2770*a*	0·645	235·3	255·5	−22·0	12	36	
		2770*b*	0·609	232·2	252·0	−22·3	21	117	163*c*
		2770	0·609	227·4	250·3	−24·8	0	4	
		2777*c*	0·307	212·6	230·6	−15·5	8	39	
		2777	0·284	211·8	229·7	−14·5	0	6	
		2777	0·287	205·5	228·1	−15·6	0	12	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2780, Dec. 8–14. A number of small spots in a very irregular group. The position and number of the spots vary continually.
Group 2781, Dec. 9–12. A small regular spot on Dec. 9. There has been a considerable outburst by Dec. 10, and the group forms a stream of closely aggregated small spots, many of which are measured together on Dec. 10 and 12. The group forms an indentation on the west limb on Dec. 12.
Group 2782, Dec. 9–18. A regular spot, *a*, sometimes followed by a stream of small spots. A small spot precedes it on Dec. 15 and 17.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
344d·431	HA,JG	2778*b*	0·421	34·5	206·2	+19·6	8	41	
		2778	0·424	41·1	203·8	+18·0	3	9	185*c*
		2778*c*	0·447	41·8	202·5	+18·9	7	25	
		2779	0·502	41·0	200·1	+21·6	0	6	
		2779*a*	0·504	46·3	198·1	+19·8	0	10	
		2780	0·646	54·4	186·6	+21·5	0	14	181*c*
		2780	0·669	57·8	183·8	+20·3	5	42	
		2780	0·747	57·9	177·6	+22·9	0	9	
		2782*a*	0·947	76·1	150·4	+13·0	30	224	843*f*
			0·799	121·4	172·2	−24·9			122
			0·813	76·2	167·5	+10·8			109
			0·943	115·4	152·1	−24·1			352
Dec. 10		Centre			(220·8)	(−0·6)	(164)	(1215)	(4086)
345·225	AR,JG		0·976	255·9	287·3	−14·0			216
			0·937	284·8	278·8	+13·6			909
I.			0·933	294·2	276·9	+22·2			382
			0·674	226·1	243·7	−28·4			181
		2781	0·922	239·5	274·4	−28·2	20	120	
		2781	0·912	237·6	272·4	−29·5	0	6	
		2781	0·906	239·5	271·9	−27·7	0	21	
		2781	0·889	239·5	269·5	−27·1	10	28	416*c*
		2781	0·878	238·0	267·6	−28·0	0	13	
		2781	0·870	236·6	266·2	−29·0	0	8	
		2768	0·853	284·7	267·7	+12·1	11	37	901*c*
		2773*a*	0·863	258·5	269·3	−10·3	38	155	256*f*
		2773*a*	0·795	256·7	262·1	−10·9	5	14	341*c*
		2773*b*	0·725	251·4	256·5	−13·8	16	98	395*s*
		2770*a*	0·754	240·4	255·2	−22·3	12	41	
		2770*b*	0·717	238·2	251·5	−22·7	22	80	380*c*
		2777*c*	0·427	233·3	231·0	−15·4	25	80	
		2777	0·432	230·7	230·6	−16·5	2	15	266*c*
		2777	0·406	228·9	228·8	−16·1	0	3	
		2777	0·390	226·9	227·5	−16·0	2	12	
		2778	0·353	3·0	209·2	+19·9	0	4	
		2778	0·353	6·5	207·9	+19·8	0	4	
		2778*b*	0·351	8·4	207·2	+19·6	7	28	
		2778	0·372	11·4	205·8	+20·6	0	8	
		2778*c*	0·358	21·8	202·3	+18·7	5	17	
		2780	0·530	43·2	187·4	+22·0	0	9	292*c*
		2780	0·559	49·3	183·5	+20·7	9	40	
		2782*a*	0·870	74·0	151·2	+13·5	54	219	744*f*
		2782	0·884	75·7	149·3	+12·3	0	12	

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
345d·225	AR,JG	2782	0·892	74·6	148·4	+13·3	0	3	
I.		2782	0·909	73·0	146·3	+15·1	0	7	
			0·934	116·7	143·5	−25·0			590
Dec. 11		Centre			(210·3)	(−0·7)	(238)	(1082)	(6269)
346·218	CL,HA		0·929	283·7	264·6	+12·4			501
			0·774	294·7	244·9	+18·2			214
I.			0·714	255·2	241·8	−11·1			122
		2781	0·988	241·5	277·2	−28·2	0	165	366*f*
		2773*a*	0·957	259·2	270·1	−10·6	20	113	320*f*
		2773*b*	0·856	254·2	255·2	−14·0	0	34	318*c*
		2770*a*	0·871	244·7	255·4	−22·3	2	18	283*c*
		2770*b*	0·842	243·3	251·7	−22·7	9	47	
		2777*c*	0·604	245·2	231·8	−15·4	21	93	
		2777	0·577	241·5	229·1	−16·7	0	4	183*c*
		2777	0·541	240·6	226·6	−16·1	0	10	
		2778*b*	0·388	333·3	207·9	+19·3	8	46	
		2778*d*	0·335	338·3	204·7	+17·2	10	51	181*c*
		2778*c*	0·351	347·5	201·9	+19·0	1	7	
		2780	0·428	22·7	187·1	+22·3	0	7	
		2780	0·421	25·2	186·3	+21·4	0	10	
		2780	0·442	26·8	184·9	+22·3	0	2	140*c*
		2780	0·427	29·8	184·2	+20·8	5	26	
		2780	0·440	32·0	182·9	+21·0	1	7	
		2780	0·462	37·8	179·8	+20·4	0	15	
		2780	0·498	37·3	178·3	+22·4	2	9	95*c*
		2780	0·510	39·5	176·9	+22·2	0	4	
		2782*a*	0·740	70·7	151·6	+13·5	36	206	
		2782	0·780	70·6	148·1	+14·4	5	21	757*f*
		2782	0·798	70·0	146·5	+15·2	0	6	
			0·803	115·4	146·7	−20·6			263
			0·834	123·4	145·5	−27·8			243
			0·873	59·1	141·0	+26·0			90
			0·917	115·7	133·0	−23·8			553
Dec. 12		Centre			(197·3)	(−0·9)	(120)	(901)	(4629)
347·459	CL,M		0·950	248·6	251·6	−20·6			589
			0·915	291·0	245·1	+18·7			332
			0·878	256·2	241·5	−12·5			156
		2777*c*	0·794	251·9	232·1	−14·9	23	144	276*c*
		2777	0·734	248·6	226·1	−16·2	0	12	
		2777	0·720	243·6	223·8	−19·3	0	6	292*c*
		2777	0·714	240·4	222·5	−21·4	0	9	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
347d·459	CL, M	2778	0·559	306·5	209·1	+18·5	0	4	
		2778*b*	0·556	308·4	208·3	+19·2	12	90	
		2778	0·514	306·0	206·5	+16·6	1	13	
		2778	0·520	310·7	205·4	+18·9	2	9	
		2778*d*	0·484	312·2	203·0	+18·0	13	52	
		2780	0·392	346·2	186·6	+21·3	8	55	
		2780	0·378	352·5	183·9	+20·9	6	30	
		2782*a*	0·524	62·0	152·6	+13·3	29	186	
		2782	0·528	65·2	151·7	+11·9	0	10	
		2782	0·577	63·3	148·9	+14·1	3	20	
			0·877	63·2	123·0	+22·8			177
Dec. 13		Centre			(180·9)	(−1·0)	(97)	(640)	(1822)
348·350	CL, HA		0·973	243·4	244·5	−26·1			589
			0·940	290·6	237·2	+18·9			163
I.			0·823	242·7	221·4	−22·8			244
		2777*c*	0·900	253·5	232·3	−15·3	17	86	488*c*
		2778	0·717	297·6	211·0	+18·5	0	6	
		2778*b*	0·705	299·3	209·6	+19·3	11	92	
		2778	0·659	296·9	206·7	+16·5	1	11	234*c*
		2778	0·627	299·5	203·8	+17·0	0	5	
		2778*d*	0·617	302·5	202·2	+18·4	7	30	
		2780	0·481	323·8	186·8	+21·7	0	13	
		2780	0·450	327·0	184·3	+21·0	0	5	
		2782*a*	0·377	47·6	152·5	+13·6	30	167	
		2782	0·398	51·6	150·5	+13·2	0	3	
		2782	0·424	51·5	149·2	+14·3	0	4	
			0·865	127·3	114·9	+32·2			281
			0·893	118·5	108·7	−25·7			218
Dec. 14		Centre			(169·1)	(−1·1)	(66)	(422)	(2217)
349·198	HA, JG		0·906	245·6	221·2	−22·5			360
		2777*c*	0·960	255·3	231·4	−14·4	14	67	305*s f*
M.		2778*b*	0·830	294·4	211·1	+19·3	15	93	304*c*
		2778	0·782	296·9	205·8	+19·9	0	3	
		2778	0·772	295·9	205·1	+18·9	0	3	
		2778	0·768	297·1	204·5	+19·6	0	4	
		2778*d*	0·739	297·0	202·0	+18·7	4	12	
		2782	0·244	4·8	156·9	+12·8	0	3	74*c*
		2782*a*	0·270	17·7	153·3	+13·7	26	138	
			0·934	56·2	93·8	+30·7			347
Dec. 15		Centre			(158·1)	(−1·2)	(59)	(323)	(1390)
1892.				°	°	°			
350d·219	CL, JG		0·973	247·8	220·5	−21·9			285
			0·860	299·0	199·7	+23·8			180
M.		2778*b*	0·937	291·6	212·0	+19·6	17	79	542*c*
		2778*d*	0·863	292·6	201·6	+18·6	0	8	
		2778	0·845	294·1	199·2	+19·3	0	3	
		2782*a*	0·299	329·9	153·4	+13·5	12	86	86*c*
		2782	0·291	334·1	152·1	+13·8	0	3	
		2783*a*	0·616	130·1	113·6	−24·5	3	29	
		2783	0·628	129·2	112·4	−24·5	0	3	
		2783	0·648	127·5	110·4	−24·3	0	4	
		2783*b*	0·566	126·1	108·6	−24·2	2	14	
			0·926	107·7	77·7	−16·9			229
Dec. 16		Centre			(144·6)	(−1·4)	(34)	(229)	(1322)
351·205	AR, JG		0·829	282·3	186·5	+ 9·3			392
			0·830	297·1	183·8	+21·2			325
I.		2778*d*	0·954	289·4	202·4	+17·9	0	14	910*n*
		2782	0·454	303·8	154·3	+13·2	0	7	204*c*
		2782*a*	0·449	305·7	153·5	+13·8	11	62	
		2784	0·524	332·2	147·3	+26·1	0	5	
		2783*a*	0·489	143·3	113·0	−24·4	5	51	283*c*
		2783*b*	0·517	138·1	109·5	−23·9	4	29	
			0·866	109·8	73·0	−17·8			191
			0·954	120·8	61·2	−29·7			124
Dec. 17		Centre			(131·6)	(−1·5)	(20)	(168)	(2429)
352·202	CL, M		0·936	274·3	187·6	+ 4·5			186
			0·922	293·5	183·0	+20·9			546
I.			0·878	282·3	178·7	+10·0			448
			0·858	241·9	174·6	−24·7			167
		2782*a*	0·618	294·5	153·6	+13·5	9	41	
		2783*a*	0·405	166·3	112·0	−24·7	15	70	
		2783*b*	0·412	159·3	109·3	−24·1	7	53	
		2785	0·903	77·0	54·9	+11·0	0	4	
			0·843	119·4	64·3	−25·3			75
			0·850	108·1	61·3	−16·2			298
			0·908	126·0	57·5	−33·0			167
			0·947	116·0	48·7	−25·2			118
Dec. 18		Centre			(118·4)	(−1·6)	(31)	(168)	(2005)
353·221	HA, JG		0·911	282·7	169·6	+10·8			105
			0·725	290·4	149·1	+13·4			233
I.			0·699	302·5	143·9	+20·7			499

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2783, Dec. 16–20. A stream of spots of which the first and last spots are *a* and *b*. *b* is not seen on Dec. 20.
Group 2784, Dec. 17. A very small spot.
Group 2785, Dec. 18–28. A very small spot. The group is not seen on Dec. 19 and 20. A fresh outburst has occurred by Dec. 21, and the group has become an irregular stream, whose leading spot is *a*, by Dec. 23. The stream has become straight and regular by the succeeding day. *a* alone is seen on Dec. 28.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
353d·221	HA,JG	2783*a*	0·410	195·9	112·1	−24·8	8	44	140*c*
		2783*b*	0·390	191·4	109·8	−24·1	4	23	
I.			0·824	75·4	50·9	+11·0			136
			0·918	117·4	40·5	−25·7			657
			0·944	83·1	34·8	+ 5·9			43
			0·979	100·4	26·9	−10·6			359
Dec. 19		Centre			(105·0)	(−1·7)	(12)	(67)	(2172)
354·210	CL,M		0·848	287·7	148·1	+13·8			472
			0·795	237·9	140·4	−26·2			770
I.			0·779	296·7	139·3	+19·2			242
		2786	0·651	247·9	130·6	−15·6	0	8	
		2786	0·628	249·9	129·4	−14·0	0	5	
		2786	0·626	247·0	128·6	−15·7	0	4	
		2783*a*	0·495	217·5	111·3	−24·8	2	6	
		2783	0·472	210·8	107·5	−25·7	1	8	
		2783	0·466	211·5	107·5	−25·2	2	8	
			0·855	121·6	43·4	−40·9			248
			0·901	113·3	29·3	−21·7			668
			0·898	97·2	28·3	− 7·3			289
			0·935	63·1	26·1	+24·2			134
			0·974	101·5	15·2	−11·7			459
Dec. 20		Centre			(92·0)	(−1·9)	(5)	(39)	(3282)
355·218	AR,JG		0·933	286·7	146·0	+14·8			368
			0·869	240·2	136·0	−26·6			492
I.		2786	0·804	253·8	131·3	−14·2	0	6	260*c*
		2786	0·783	251·4	128·9	−15·7	0	22	
		2785*a*	0·396	60·2	58·4	+ 9·5	0	15	
		2785	0·420	59·0	57·3	+10·6	0	8	
		2785	0·416	61·2	57·1	+ 9·7	2	26	
		2785	0·447	56·5	56·4	+12·4	4	16	348*c*
		2785	0·453	61·8	54·8	+10·5	4	16	
		2785	0·480	60·2	53·6	+11·9	12	35	
		2787*a*	0·946	105·2	8·0	−15·0	16	124	535*p*
		2787*b*	0·960	108·0	5·4	−17·8	15	54	
			0·788	123·5	31·3	−27·1			396
			0·804	103·3	25·8	−11·8			304
			0·880	62·3	21·1	+23·0			134
Dec. 21		Centre			(78·7)	(−2·0)	(53)	(322)	(2837)
356·300	CL,M		0·886	240·0	123·9	−27·3			570
			0·883	302·8	120·9	+27·4			215
I.			0·781	238·2	111·7	−25·7			175
1892.				°	°	°			
356d·300	CL,M	2786	0·905	253·9	128·6	−15·4	2	34	295*p*
		2785*a*	0·222	25·8	58·8	+ 9·4	10	37	
I.		2785	0·267	28·3	57·0	+11·5	4	14	
		2785	0·267	35·0	55·5	+10·6	7	23	
		2785	0·307	37·4	53·1	+17·9	8	30	
		2788	0·779	107·2	14·3	−14·7	3	32	
		2787*a*	0·845	106·7	7·6	−15·2	20	152	820*c*
		2787*b*	0·871	110·1	5·1	−18·4	15	71	
			0·788	128·6	18·7	−30·9			292
			0·783	59·2	18·0	+22·2			278
			0·869	69·5	6·5	+16·6			317
			0·895	121·3	4·0	−28·7			397
Dec. 22		Centre			(64·4)	(−2·1)	(69)	(393)	(3359)
357·211	CL,JG		0·968	281·0	127·1	+10·0			187
			0·975	297·0	126·9	+25·7			106
I.			0·931	263·9	120·9	− 6·5			87
			0·921	240·8	117·4	−27·6			501
		2786	0·981	254·5	131·2	−15·6	0	16	300*c*
		2789	0·546	288·6	83·9	+ 8·1	0	14	
		2789	0·525	289·0	82·5	+ 8·5	0	5	135*c*
		2789*a*	0·519	290·2	81·9	+ 8·3	7	15	
		2785*a*	0·242	324·2	60·7	+ 9·1	7	22	
		2785	0·246	336·8	58·1	+10·8	0	7	
		2785	0·235	339·2	57·3	+10·5	0	4	
		2785	0·229	343·0	56·4	+10·4	4	32	
		2785	0·209	344·5	55·7	+ 9·3	0	8	
		2785	0·209	347·4	55·1	+ 9·5	0	4	
		2785	0·248	353·1	54·2	+12·0	0	8	
		2788	0·628	110·5	15·3	−14·4	2	8	
		2787	0·724	111·1	7·8	−16·7	0	11	485*s*
		2787*a*	0·718	109·1	7·0	−15·1	22	122	
		2787*b*	0·752	113·1	5·8	−18·6	15	70	
			0·832	123·5	0·5	−28·6			298
			0·941	100·4	342·5	−10·5			78
			0·960	72·2	340·4	+16·4			150
Dec. 23		Centre			(52·5)	(−2·2)	(57)	(346)	(2327)
358·495	HA,JG	2790*a*	0·806	258·6	88·9	−10·6	0	22	
		2789	0·788	282·5	86·4	+ 8·3	2	20	
		2789	0·761	283·2	83·9	+ 8·4	0	9	196*c*
		2789*a*	0·735	283·1	81·7	+ 7·9	0	34	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *e*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2786. Dec. 20–23. Three very small spots on Dec. 20. The number of spots vary from day to day.
Group 2787, 1892 Dec. 21–1893 Jan. 1. Two regular spots, *a* and *b*, and one or two small spots forming a line nearly perpendicular to the equator. The group has greatly increased in size by Dec. 24. *a* remains unchanged, but *b* has disappeared and fresh spots have appeared, so that the group forms a very long irregular stream inclined at a large angle to the direction of motion. A large regular spot, *c*, is *sf* of *a*. The intermediate spots diminish on the succeeding days. A third spot, *np* of *a*, is seen on Jan. 1.
Group 2788, 1892 Dec. 22–23. A small faint spot preceding Group 2787.
Group 2789, 1892 Dec. 23–24. A few small spots forming a stream. The largest spot, *a*, is the last.
Group 2790, 1892 Dec. 24–26. A small single spot, *a*, on Dec. 24. *a* has greatly increased by Dec. 25, and two companions are seen near it on that day.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
358d·495	HA,JG	2785*a*	0·478	294·1	61·7	+ 9·0	0	10	
		2785	0·449	298·1	59·2	+10·0	0	3	
		2785	0·430	298·8	58·0	+ 9·7	0	19	
		2785	0·410	296·3	57·3	+ 8·2	1	11	136*c*
		2785	0·409	298·2	56·9	+ 8·9	0	5	
		2785	0·390	295·3	56·3	+ 7·3	1	17	
		2787*a*	0·507	117·0	7·8	−15·4	18	116	
		2787	0·489	109·1	7·6	−11·3	0	15	
		2787	0·532	121·3	7·2	−18·1	0	6	
		2787*b*	0·554	121·7	5·8	−19·0	0	20	
		2787	0·625	121·4	0·9	−20·9	16	47	
		2787	0·680	120·8	356·7	−22·2	0	13	
		2787	0·701	121·9	355·3	−23·5	0	15	
		2787	0·715	124·0	354·8	−25·3	0	7	
		2791*a*	0·917	74·2	330·7	+13·4	11	60	
		2791	0·946	74·7	326·0	+13·6	3	26	321*c*
		2791*b*	0·950	76·9	324·9	+11·7	0	16	
		2792*a*	0·965	113·5	321·4	−23·3	44	192	544*c*
		2792*b*	0·986	112·0	315·2	−22·1	29	504	
Dec. 24		Centre			(35·6)	(−2·4)	(125)	(1187)	(1197)
359·486	CL,AR		0·956	72·4	311·3	+16·0			331
		2790	0·943	259·6	92·9	−10·7	7	44	
		2790*a*	0·914	259·5	88·4	−10·6	8	108	316*c*
		2790	0·910	257·4	87·7	−12·5	4	29	
		2785*a*	0·667	287·0	62·6	+ 9·3	0	9	
		2785	0·630	287·8	59·8	+ 9·1	16	107	
		2785	0 578	289·8	55·8	+ 9·2	13	57	
		2793	0·192	150·2	16·9	−12·1	0	17	
		2793	0·199	136·3	14·5	−10·7	0	16	
		2793	0·214	138·7	14·2	−11·7	0	3	
		2793	0·228	133·3	12·8	−11·4	0	8	
		2793	0·253	130·3	11·2	−11·8	0	8	
		2787	0·305	131·7	9·0	−14·1	4	12	
		2787*a*	0·333	132·8	7·9	−15·4	13	107	
		2787	0·372	140·0	7·9	−18·9	0	6	
		2787	0·305	125·5	7·8	−12·7	0	3	
		2787	0·380	136·5	6·6	−18·3	0	11	
		2787*c*	0·440	134·7	3·1	−20·3	19	87	
		2787	0·474	133·9	1·1	−21·4	0	8	
		2787	0·580	131·6	354·1	−24·8	0	12	
		2791*a*	0·794	70·8	332·2	+13·5	9	38	
		2791	0·810	71·4	330·6	+13·4	5	25	
1892.				°	°	°			
359d·486	CL,AR	2791	0·851	71·6	326·3	+14·2	4	22	344*c*
		2791*b*	0·856	74·8	325·2	+11·6	4	21	
		2792*a*	0·882	115·3	322·4	−23·4	37	266	
		2792	0·896	111·8	320·0	−20·6	0	7	
		2792*b*	0·913	113·5	317·8	−22·4	19	89	1108*c*
		2792	0·915	110·5	317·1	−19·8	0	8	
		2792*c*	0·934	112·5	314·3	−21·9	33	340	
		2792	0·954	111·6	310·6	−21·3	0	50	
Dec. 25		Centre			(22·5)	(−2·5)	(195)	(1518)	(2099)
360·510	CL,JG	2790*a*	0·979	258·6	87·3	−11·7	0	365	
		2785*a*	0·806	283·5	61·3	+ 9·2	0	35	
		2785	0·788	283·5	59·7	+ 8·9	0	8	
		2785	0·748	284·5	56·0	+ 9·0	0	6	
		2785	0·732	285·9	54·4	+ 9·7	0	10	
		2793	0·180	217·7	15·4	−10·8	0	9	
		2787	0·206	181·1	9·2	−14·4	0	4	
		2787*a*	0·226	175·3	7·9	−15·6	12	100	
		2787	0·330	168·4	4·9	−21·4	0	2	
		2787*c*	0·319	164·4	3·8	−20·4	7	60	
		2787	0·404	152·9	357·5	−23·6	0	10	
		2787	0·433	146·7	354·0	−23·7	0	8	
		2791	0·623	65·3	333·7	+12·9	0	10	
		2791*a*	0·640	65·1	332·5	+13·5	6	20	
		2791	0·655	66·0	331·2	+13·4	0	7	
		2791	0·664	64·2	331·0	+14·7	0	9	
		2791	0·712	66·8	326·7	+14·3	0	11	
		2791*b*	0·709	71·4	325·9	+11·1	0	22	
		2792*a*	0·759	119·4	323·0	−23·7	44	279	
		2792	0·775	117·0	320·9	−22·3	4	16	
		2792*b*	0·794	115·3	318·7	−21·5	18	160	
		2792	0·817	116·4	316·6	−22·8	0	11	606*c*
		2792*c*	0·841	115·4	313·8	−22·7	35	136	
		2792	0·847	113·2	312·8	−20·9	9	27	
		2792	0·871	113·6	310·0	−21·7	6	46	
Dec. 26		Centre			(9·0)	(−2·6)	(141)	(1371)	(606)
361·265	M,JG		0·918	253·1	65·2	−16·6			190
		2785*a*	0·900	281·5	62·2	+ 9·1	11	32	624*c*
I.		2785	0·837	283·1	54·6	+ 9·4	4	13	
		2793	0·334	243·4	16·7	−11·1	3	9	
		2793	0·310	242·1	15·2	−10·9	0	2	
		2793	0·333	233·5	15·0	−14·0	0	3	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2791, 1892 Dec. 24–29. A number of small spots, of which *a* is the first, and *b* the last, in an irregular group. The group has become a straight stream by Dec. 27. The following spots diminish and *a* alone remains by Dec. 29.

Group 2792, 1892 Dec. 24–1893 Jan. 5. Two large spots, *a* and *b*, on Dec. 24. A third regular spot, *c*, follows on Dec. 25, with numerous outlying spots. *b* becomes irregular in shape on the succeeding days and moves up to *a*, and has become a confused nebulous mass attached to the following side of *a*, which is very large and regular by Dec. 28. The small spots surrounding *a* seem to become absorbed in it, those surrounding *c* to die out. *a* and *c* alone remain by Jan. 1. One small companion is seen on Jan. 4.

Group 2793, 1892 Dec. 25–28. A number of small spots in a scattered irregular group *n p* of Group 2787. Only one spot is seen on Dec. 26.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots. Area of UMBRA for each Spot (and for Day).	Spots. Area of WHOLE for each Spot (and for Day).	Faculæ. Area for each Group (and for Day).
1892.				°	°	°			
361d·265	M,JG	2793	0·294	237·8	13·7	−11·6	0	11	
		2787a	0·272	212·9	7·9	−15·8	11	100	
I.		2787c	0·322	194·4	4·0	−20·8	7	37	
		2787	0·371	167·8	354·2	−23·9	0	7	
		2791	0·493	56·9	334·1	+13·1	0	5	
		2791a	0·514	57·7	332·7	+13·5	9	27	
		2791	0·528	59·5	331·4	+13·1	0	7	
		2791b	0·580	65·9	326·5	+11·4	3	20	
		2792a	0·663	124·0	322·3	−23·8	61	477	
		2792b	0·685	120·0	319·5	−22·0	9	134	
		2792	0·718	119·5	316·6	−22·7	1	8	
		2792c	0·753	118·2	313·3	−22·7	46	228	699c
		2792	0·764	115·1	311·6	−20·7	6	25	
		2792	0·787	116·1	309·6	−22·0	6	55	
			0·789	60·9	311·8	+20·7			128
			0·920	102·3	292·4	−12·4			311
			0·967	73·4	285·4	+15·3			260
Dec. 27		Centre			(359·1)	(−2·7)	(177)	(1200)	(2212)
362·213	CL,HA		0·914	249·4	51·9	−19·9			155
			0·917	239·3	50·9	−29·2			195
I.			0·764	236·7	32·1	−26·8			293
		2785a	0·976	281·2	63·1	+10·3	5	26	526f
		2793	0·543	253·1	18·5	−11·4	0	4	
		2793	0·524	248·6	16·6	−13·4	0	7	
		2793	0·474	250·0	13·5	−11·8	2	5	
		2787a	0·423	236·6	8·1	−16·0	18	96	
		2787c	0·424	220·9	3·8	−20·7	5	25	
		2791a	0·362	40·2	332·8	+13·2	7	22	
		2791b	0·410	53·7	327·0	+11·3	2	6	
		2791	0·454	47·3	326·5	+15·2	0	8	
		2791	0·438	56·2	324·9	+11·4	0	2	
		2792a	0·512	135·6	323·6	−24·0	71	311	
		2792	0·536	137·5	323·0	−25·7	0	7	
		2792	0·539	132·4	320·9	−23·8	19	266	
		2792	0·539	124·9	318·6	−20·4	0	31	
		2792	0·564	125·8	317·3	−21·6	0	8	
		2792	0·558	124·1	317·1	−20·6	0	4	468c
		2792	0·582	127·8	316·7	−23·3	0	11	
		2792	0·558	122·0	316·6	−19·6	0	11	
		2792c	0·621	125·2	313·2	−23·2	51	233	
		2792	0·624	121·4	311·9	−21·2	5	22	
		2792	0·658	122·1	309·6	−22·7	8	48	
1892.				°	°	°			
362d·213	CL,HA	2794a	0·951	101·3	274·6	−11·6	0	12	405c
I.		2794b	0·977	102·1	268·2	−12·4	0	29	
		2795	0·964	117·8	272·8	−27·5	20	158	450c
		2795	0·988	119·1	265·4	−29·2	0	47	
			0·773	104·7	296·7	−13·1			162
			0·913	72·3	282·7	+14·9			283
			0·939	59·8	281·2	+27·0			129
			0·964	110·9	272·4	−20·9			276
Dec. 28		Centre			(346·6)	(−2·8)	(213)	(1399)	(3342)
363·219	CL,HA	2787a	0·592	246·5	7·6	−16·0	10	65	
		2787c	0·579	235·5	4·1	−21·5	6	21	
M.		2791a	0·279	1·2	333·1	+13·2	2	13	
		2792a	0·398	156·7	323·5	−24·2	57	312	
		2792	0·433	156·1	322·2	−26·1	1	11	
		2792	0·402	149·8	320·8	−23·1	6	26	
		2792	0·423	151·9	320·8	−24·7	7	78	
		2792	0·389	147·9	320·6	−22·0	0	9	
		2792	0·378	144·0	319·7	−20·6	0	2	
		2792	0·394	143·5	318·9	−21·2	2	20	
		2792	0·432	141·9	316·7	−22·6	0	2	
		2792	0·408	137·4	316·4	−20·2	0	3	
		2792c	0·474	138·2	313·4	−23·3	26	128	
		2792	0·466	135·0	312·7	−21·9	0	6	
		2792	0·521	133·6	309·2	−23·6	0	6	
		2794a	0·856	102·3	274·9	−12·0	0	9	213f
		2794b	0·901	103·2	269·4	−13·1	5	28	
		2795	0·894	120·1	272·4	−28·0	17	106	
		2795	0·904	118·3	270·6	−26·7	0	9	466c
		2795	0·931	120·6	266·6	−29·5	1	12	
		2796a	0·976	120·5	256·7	−30·3	0	72	
Dec. 29		Centre			(333·4)	(−2·9)	(140)	(938)	(679)
364·217	HA,JG		0·922	240·2	25·6	−28·6			526
			0·892	256·8	23·1	−13·2			394
M.		2787	0·768	246·6	8·5	−19·8	0	5	
		2787	0·762	248·4	8·3	−18·3	0	2	236c
		2787a	0·748	251·2	7·5	−16·0	11	43	
		2787c	0·727	242·7	4·0	−21·7	6	26	
		2792a	0·365	187·0	323·0	−24·2	56	308	
		2792	0·391	184·5	322·1	−26·0	4	73	
		2792	0·345	182·0	320·9	−23·2	3	26	
		2792	0·360	180·3	320·3	−24·1	7	41	
		2792	0·316	179·0	319·9	−21·4	1	11	

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n*, *s*, *p*, *f*, *c*, denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets.
The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2794, 1892 Dec. 28–1893 Jan. 4. Two small regular spots, *a* and *b*. Two companions are seen on Jan. 1. *a* has disappeared by the succeeding day. *b* alone is left by Jan. 3.
Group 2795, 1892 Dec. 28–1893 Jan. 8. A number of small spots in a scattered irregular group on Dec. 28. The number and position of the members of the group undergo considerable changes on the succeeding days.
Group 2796, 1892 Dec. 29–1893 Jan. 5. A small regular spot, *a*. A second spot, *b*, is seen by Jan. 2, and *a* and *b* are measured as one spot on Jan. 3. Two other companions are seen on Jan. 4.

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

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
364d·217	HA,JG	2792	0·305	176·0	318·9	−20·8	0	7	
		2792	0·295	164·6	315·5	−19·6	0	2	
M.		2792	0·310	164·9	315·3	−20·4	1	5	
		2792	0·349	165·3	314·7	−22·8	0	3	
		2792	0·330	162·7	314·2	−21·4	0	5	
		2792c	0·367	162·3	313·2	−23·5	21	139	
		2792	0·347	160·5	313·1	−22·1	0	5	
		2797	0·610	146·5	296·5	−33·3	0	4	
		2794a	0·711	103·6	275·5	−11·8	0	7	
		2794b	0·776	104·4	269·9	−13·1	0	15	120c
		2795	0·791	123·3	272·1	−27·7	12	85	
		2795	0·810	120·1	269·2	−25·9	6	46	
		2795	0·841	123·0	266·6	−29·0	2	13	644c
		2796a	0·916	122·2	256·2	−30·6	20	72	
			0·888	71·3	259·8	+15·0			122
			0·903	98·7	255·7	− 9·2			71
			0·938	101·2	250·5	−11·6			190
			0·946	113·5	249·8	−23·2			454
Dec. 30		Centre			(320·2)	(−3·1)	(150)	(943)	(2757)
365·273	HA,JG		0·919	257·0	12·9	−13·2			360
			0·902	292·1	7·8	+18·3			267
I.			0·813	237·3	356·9	−28·0			344
		2787a	0·866	253·3	5·7	−16·0	3	8	
		2787c	0·857	246·0	3·7	−22·1	0	20	267c

Greenwich Civil Time.	Measurers.	No. of Group, and Letter for Spot.	Distance from Centre in terms of Sun's Radius.	Position Angle from Sun's Axis.	Heliographic Longitude.	Heliographic Latitude.	Spots: Area of UMBRA for each Spot (and for Day).	Spots: Area of WHOLE for each Spot (and for Day).	Faculæ: Area for each Group (and for Day).
1892.				°	°	°			
365d·273	HA,JG	2792	0·477	214·2	323·6	−26·2	7	23	
		2792a	0·441	214·9	322·3	−24·2	70	433	246c
I.		2792	0·375	214·7	319·5	−21·0	0	14	
		2792	0·346	205·0	315·3	−21·3	0	11	
		2792c	0·369	198·3	313·5	−23·6	27	105	102c
		2798	0·101	252·1	311·8	− 5·0	0	4	
		2799a	0·464	67·1	280·9	+ 7·5	2	19	43c
		2799	0·522	58·6	279·2	+12·9	0	3	
		2799	0·538	61·3	277·6	+12·1	2	11	26c
		2800a	0·522	120·7	278·2	−18·3	6	18	
		2800	0·529	117·5	277·1	−16·9	0	3	
		2800	0·551	120·7	276·3	−19·1	0	6	
		2800	0·538	114·9	276·0	−15·8	0	2	
		2794a	0·521	107·5	275·9	−11·8	6	28	
		2794b	0·610	106·8	269·7	−12·7	4	11	106c
		2795	0·661	129·1	271·2	−27·1	9	32	
		2795	0·669	127·3	270·0	−26·4	4	16	
		2795	0·663	125·0	269·7	−24·8	0	13	
		2795	0·684	125·4	268·2	−25·8	0	4	356c
		2795	0·723	128·1	265·9	−28·9	0	17	
		2796a	0·827	125·2	254·8	−30·5	5	36	389c
		2801	0·848	57·4	254·4	+25·2	0	8	59c
			0·747	106·1	258·8	−14·1			175
			0·900	114·1	243·3	−23·0			325
			0·896	102·7	242·9	−12·8			116
Dec. 31		Centre			(306·3)	(−3·2)	(145)	(845)	(3181)

The Groups of Spots are numbered in the order of their appearance. When there is no number in the third column it is to be understood that there is a Facula unaccompanied by a Spot. The positions of Faculæ relative to the Spots with which they are associated are indicated by the letters *n, s, p, f, c,* denoting respectively north, south, preceding, following, concentric. The longitude and latitude of the centre of the disk are given in brackets. The Areas of Spots and Faculæ are expressed in millionths of the Sun's visible Hemisphere.

Group 2797, 1892 Dec. 30. A very small spot.
Group 2798, 1892 Dec. 31. A very faint group.
Group 2799, 1892 Dec. 31–1893 Jan. 8. A scattered group of small spots on Dec. 31. The leading spot, *a*, has increased considerably by the succeeding day. The other spots remain small and irregularly distributed. A spot, *b*, has appeared *n p* of *a* by Jan. 5. *a* alone remains by Jan. 8.
Group 2800, 1892 Dec. 31–1893 Jan. 4. A number of small spots in an irregular group, of which the leader, *a*, is the largest. *b* is the largest spot on Jan. 1. *a* has disappeared by Jan. 2, and *b* alone remains.
Group 2801, 1892 Dec. 31. A group of very small faint spots.