POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR SEPTEMBER 1944

By LUCY T. DAY

[Equatorial Division, U. S. Naval Observatory]

[Communicated by Commodore J. F. Hellweg, U. S. N. (Ret.) Superintendent, U. S. Naval Observatory.] All measurements and spot counts were made at the Naval Observatory from plates taken at the observatories indicated. Difference in longitude is measured from the central meridian, positive toward the west. Latitude is positive toward the north. Areas are corrected for foreshortening and expressed in millionths of Sun's hemisphere. For each day, under longitude, latitude, area of spot or group, and spot count are included assumed longitude of center of the disk, assumed latitude of center of the disk, total areas of spots and groups and total spot count.

Date	Eastern standard time	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count	Plate quality	Observatory
1944	h m		°	°	°	°				
Sept. 1	10 54	7666	+57	42	−30	66	24	2	G	U. S. Naval.
		7666	+59	44	−30	67	73	2		
		7663	+61	46	−23	67	6	1		
		7663	+65	50	−24	70	6	1		
				(345)	(+7)	------	109	6		
2	10 12	7666	+68	41	−32	74	121	1	F	Do.
		7666	+69	42	−31	75	24	1		
		7666	+72	45	−30	78	194	1		
		7663	+79	52	−24	80	6	1		
				(333)	(+7)		345	4		
3	11 7	7666	+85	44	−32	85	24	2	G	Do.
				(319)	(+7)		24	2		
4	10 2	------	------	No spots		------	------	------	------	†Mt. Wilson.
5	10 42	------	------	No spots		------	------	------	------	Do.
6	10 48	7667	+49	328	−17	53	24	7	G	U. S. Naval.
				(279)	(+7)	------	24	7	------	
Sept 7	10 31	(*)	+27	293	+7	27	12	4	G	Do.
		7667	+62	328	−18	67	*12	2		
				(266)	(+7)		24	6		
8	10 30			No spots		------	------	------	------	Mt. Wilson.
9	11 16	7668	−78	162	−24	80	194	1	F	U. S. Naval.
				(240)	(+7)		194	1		
10	11 20	7668	−70	156	−25	74	97	2	G	Do.
		7668	−64	162	−25	70	242	1		
				(226)	(+7)		339	3		
11	11 34	7668	−57	156	−24	62	73	4	F	Do.
		7668	−52	161	−25	59	12	1		
		7668	−48	165	−24	57	230	3		
		7668	−45	168	−25	54	12	1		
				(213)	(+7)		327	9		
12	10 23	7668	−45	155	−26	55	73	16	VG	Mt. Wilson.
		7668	−40	160	−26	51	12	1		
		7668	−36	164	−25	46	97	22		
		7668	−36	164	−24	46	194	1		
		7668	−33	167	−26	45	48	15		
				(200)	(+7)		424	55		
13	13 20	7668	−30	156	−25	43	36	2	F	U. S. Naval.
		7668	−30	156	−27	45	24	1		
		7668	−25	161	−26	40	36	1		
		7668	−22	164	−25	38	242	1		
		7668	−22	164	−23	37	97	6		
		7668	−17	169	−25	36	121	2		
				(186)	(+7)		556	13		
14	15 44	7668	−15	156	−25	35	16	1	F	Do.
		7668	−11	160	−26	36	12	1		
		7668	−8	163	−25	34	242	1		
		7668	−8	163	−23	32	97	7		
		7668	−8	163	−22	31	6	1		
		7668	−4	167	−25	33	85	3		
				(171)	(+7)		458	14		
15	10 29	7668	−5	156	−25	33	16	4	G	Do.
		7668	−2	159	−26	33	12	3		
		7668	+1	162	−25	32	206	1		
		7668	+2	163	−24	31	48	8		
		7668	+6	167	−25	33	73	3		
				(161)	(+7)		355	19		
16	10 35	7668	+9	157	−25	33	6	1	G	Do.
		7668	+15	163	−25	35	206	1		
		7668	+20	168	−26	38	73	3		
				(148)	(+7)		285	5		

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Date	Eastern standard time	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count	Plate quality	Observatory
1944	h m		°	°	°	°				
Sept. 17	10 33	7668	+21	155	−25	38	6	1	G	U. S. Naval.
		7668	+25	159	−25	40	12	3		
		7668	+27	161	−25	42	206	1		
		7668	+32	166	−25	45	11	2		
				(134)	(+7)		285	7		
18	10 20	7668	+41	162	−25	51	206	1	G	Mt. Wilson.
		7668	+47	168	−25	56	61	1		
				(121)	(+7)		267	2		
9	10 10	7669	−66	42	−25	71	24	4	G	Do.
		7668	+55	163	−25	61	206	1		
		7668	+59	167	−24	65	121	7		
				(108)	(+7)		351	12		
20	11 38	7669	−51	43	−26	60	12	2	F	U. S. Naval.
		7669	−47	47	−24	56	16	2		
		7668	+69	163	−25	73	206	1		
		7668	+72	166	−24	77	61	1		
		7668	+72	166	−25	77	97	1		
				(94)	(+7)		392	7		
21	10 41	7669	−37	44	−25	48	36	9	VG	Do.
		7669	−32	49	−24	45	73	5		
		7668	+86	167	−25	86	206	1		
				(81)	(+7)		315	15		
22	10 24	7669	−23	45	−25	38	36	9	G	Do.
		7669	−19	49	−24	37	48	10		
		7669	−17	51	−24	36	145	3		
				(68)	(+7)		229	22		
23	10 44	7669	−11	44	−25	35	61	3	G	Do.
		7669	−7	48	−25	33	85	15		
		7669	−1	54	−24	32	218	1		
				(55)	(+7)		364	19		
24	11 24	7669	+2	43	−25	33	48	3	F	Do.
		7669	+6	46	−24	32	24	2		
		7669	+12	53	−24	34	206	2		
				(41)	(+7)		278	7		
25	14 8	7669	+16	43	−25	35	16	5	F	Do.
		7669	+21	48	−22	36	24	6		
		7669	+25	52	−22	37	61	1		
		7669	+27	54	−24	41	206	1		
				(27)	(+7)		307	13		
26	11 1	7669	+27	42	−25	42	16	6	G	Do.
		7669	+33	48	−24	45	48	12		
		7669	+37	52	−24	48	73	1		
		7669	+38	53	−24	49	242	1		
				(15)	(+7)	------	379	20		
27	10 39	7669	+45	47	−24	53	24	9	F	Do.
		7669	+50	52	−24	58	61	1		
		7669	+51	53	−24	59	206	1		
				(2)	(+7)	------	291	11		
28	10 45	7669	+65	54	−24	70	315	3	F	Do.
				(349)	(+7)	------	315	3		
29	10 35	7671	−1	335	+21	14	36	10	G	Mt. Wilson.
		7670	+14	350	−7	19	24	2		
		7669	+79	55	−24	80	388	1		
				(336)	(+7)	------	448	13		
30	12 38	•	−39	283	−6	41	12	3	F	Do.
		7671	+12	334	+23	20	97	6		
		7671	+17	339	+21	22	194	1		
				(322)	(+7)	------	303	10		

Mean daily area for 30 days=266

†Data from Mount Wilson charts.
*Not numbered.

VG=very good; G=good; F=fair; P=poor.