POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR MAY 1947

By LUCY T. DAY

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[Communicated by the 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 towards the north. Areas are corrected for foreshortening and expressed in millionths of Sun's hemisphere. For each day under Mount Wilson group number, longitude, latitude, area of spot or group, and spot count, are included respectively: number of groups, assumed longitude of center of the disk, assumed latitude of center of the disk, total area 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
1947	h m		°	°	°	°				
May 1	10 56	8535	−80	40	−14	80	97	1	G	U. S. Naval.
		8534	−68	52	+12	70	12	2		
		8527	−52	68	−25	54	873	11		
		8527	−33	87	−24	37	194	3		
		8526	−24	96	−24	30	48	4		
		8525	−16	104	+22	30	267	14		
		8532	−10	110	−25	24	24	6		
		8531	−9	111	−21	19	73	2		
		8531	−6	114	−21	18	48	1		
		8522	−5	115	−15	12	12	3		
		8522	−2	118	−10	6	170	1		
		8530	+8	128	−15	13	24	4		
		8516	+12	132	−15	17	48	10		
		8516	+23	143	−13	23	12	1		
		8516	+29	149	−17	31	36	3		
		8513	+29	149	−16	31	24	1		
		8513	+35	155	−17	37	194	1		
		8512	+45	165	−11	45	267	3		
		8511	+50	170	−21	51	12	2		
		8521	+55	175	+12	57	48	2		
		8521	+61	181	+9	62	291	2		
		8510	+68	188	+24	71	776	6		
		8515	+70	190	+18	72	242	7		
		(16)		(120)	(−4)		3,792	90		
2	10 7	8538	−80	27	+7	80	48	1	F	Do.
		8535	−77	30	−17	77	97	1		
		8535	−70	37	−13	70	242	4		
		8527	−39	68	−24	42	727	8		
		8527	−20	87	−22	26	97	1		
		8526	−12	95	−22	22	24	1		
		8525	−3	104	+22	26	145	6		
		8531	+5	112	−21	18	97	5		
		8537	+6	113	−3	5	48	6		
		8522	+11	118	−10	13	145	1		
		8530	+24	131	−16	26	24	6		
		8516	+26	133	−14	29	24	2		
		8513	+42	149	−16	43	12	2		
		8513	+49	156	−18	50	194	1		
		8512	+59	166	−11	59	267	1		
		8521	+75	182	+10	76	291	1		
		8510	+80	187	+24	81	436	2		
		(14)		(107)	(−4)		2,918	49		
3	10 54	8538	−68	25	+7	69	24	2	G	Do.
		8535	−63	30	−15	63	121	13		
		8535	−54	39	−15	55	242	7		
		8540	−34	59	+19	41	388	14		
		8527	−24	69	−24	31	582	17		
		8527	−7	86	−23	21	73	1		
		8526	−5	88	−15	12	48	15		
		8526	+1	94	−23	20	24	12		
		8525	+12	105	+22	28	339	4		
		8531	+20	113	−21	26	48	9		
		8537	+21	114	−3	21	339	15		
		8539	+24	117	−16	27	6	3		
		8522	+26	119	−10	27	121	1		
		8516	+41	134	−16	43	6	3		
		8516	+49	142	−16	50	6	2		
		8513	+64	157	−18	64	218	1		
		8512	+72	165	−10	72	388	1		
		(13)		(93)	(−4)		2,973	120		
4	11 42	8538	−53	27	+7	54	12	2	G	Do.
		8541	−50	30	−17	51	97	13		
		8535	−44	36	−16	45	145	15		
		8535	−39	41	−15	40	339	6		
		8540	−23	57	+19	32	388	3		
		8540	−19	61	+20	30	485	6		
		8527	−11	69	−24	23	582	3		
		8527	+7	87	−23	20	97	7		
		8526	+13	93	−23	22	48	7		
		8532	+22	102	−22	28	6	1		
		8525	+27	107	+21	37	73	1		
		8531	+31	111	−22	35	12	2		
		8537	+34	114	−5	34	485	15		
		8522	+40	120	−11	41	145	1		
		8536	+60	140	+28	66	12	1		
		8513	+79	159	−18	79	194	1		
		(13)		(80)	(−4)		3,120	84		

See footnotes at end of table.

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR MAY 1947—Continued

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
1947	h m		°	°	°	°				
May 5	10 30	8544	−80	347	+12	80	48	1	G	U. S. Naval.
		8543	−72	355	−12	72	339	6		
		8541	−37	30	−17	39	73	15		
		8535	−29	38	−16	31	48	5		
		8535	−26	41	−15	29	436	6		
		8540	−11	56	+19	25	388	2		
		8540	−7	60	+20	25	436	3		
		8527	+2	69	−24	21	533	8		
		8527	+21	88	−23	28	24	3		
		8542	+5	72	+47	50	12	1		
		8526	+27	94	−23	32	48	3		
		8532	+35	102	−22	39	6	1		
		8525	+40	107	+20	46	48	1		
		8531	+45	112	−22	48	12	2		
		8537	+45	112	−5	45	339	6		
		8537	+52	119	−5	52	194	4		
		8522	+53	120	−10	53	97	1		
		(13)		(67)	(−4)		3,081	68		
6	8 56	8544	−68	347	+12	70	73	12	G	Mt. Wilson.
		8543	−63	352	−13	63	121	7		
		8543	−58	357	−12	58	291	14		
		8538	−29	26	+7	31	12	3		
		8541	−24	31	−17	26	48	11		
		8535	−11	44	−16	16	339	3		
		8540	+3	58	+18	22	339	8		
		8540	+7	62	+19	24	485	2		
		8527	+14	69	−25	25	533	12		
		8532	+49	104	−22	51	24	3		
		8525	+54	109	+21	59	24	2		
		8531	+58	113	−21	59	12	2		
		8537	+58	113	−5	58	485	8		
		8537	+67	122	−5	67	194	2		
		8522	+67	122	−10	67	97	2		
		(12)		(55)	(−4)		3,077	91		
7	10 31	8546	−72	329	+8	73	12	3	G	U. S. Naval.
		8544	−57	344	+13	59	48	5		
		8544	−49	352	+13	51	97	1		
		(*)	−50	351	−20	52	6	2		
		8543	−50	351	−13	50	97	4		
		8543	−43	358	−12	44	339	2		
		8545	−39	2	−17	40	73	5		
		8541	−11	30	−17	16	48	4		
		8535	+3	44	−14	11	388	2		
		8540	+15	56	+19	27	339	5		
		8540	+21	62	+20	32	388	6		
		8527	+28	69	−25	35	485	3		
		8532	+62	103	−21	63	24	2		
		8525	+67	108	+22	70	12	3		
		8531	+69	110	−21	69	48	3		
		8537	+69	110	−5	69	436	6		
		8537	+80	121	−5	80	145	1		
		(13)		(41)	(−4)		2,985	57		
8	10 11	8547	−80	308	+21	80	97	3	G	Do.
		8547	−75	313	+22	77	291	2		
		8546	−59	329	+9	60	48	1		
		8544	−42	346	+11	44	24	1		
		8544	−35	353	+12	38	73	3		
		8543	−37	351	−13	39	97	7		
		8543	−31	357	−13	33	291	2		
		8545	−25	3	−17	29	121	16		
		8541	+7	35	−17	16	48	8		
		8535	+16	44	−13	19	364	9		
		8540	+28	56	+18	35	291	10		
		8540	+35	63	+19	41	485	1		
		8527	+40	68	−25	44	291	5		
		8532	+78	106	−21	79	73	1		
		8537	+84	112	−5	84	339	3		
		(11)		(28)	(−3)		2,933	72		
9	10 34	8548	−80	294	+23	80	242	2	G	Do.
		8548	−70	304	+20	72	291	2		
		8547	−60	314	+21	63	242	1		
		8546	−44	330	+10	46	48	1		
		8544	−20	354	+13	25	145	5		
		8543	−20	354	−13	22	339	4		
		8545	−11	3	−17	17	194	10		
		8541	+17	31	−18	22	48	1		
		8535	+30	44	−13	32	339	2		
		8540	+40	54	+17	44	194	4		
		8540	+47	61	+19	51	339	1		
		8527	+52	66	−26	55	291	3		
		(10)		(14)	(−3)		2,712	36		
10	12 49	8548	−65	295	+23	68	291	2	F	Do.
		8548	−55	305	+20	59	291	4		
		8547	−47	313	+20	51	194	2		
		8546	−30	330	+9	32	24	1		
		8544	−8	352	+12	18	170	7		
		8544	−4	356	+11	14	242	2		

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR MAY 1947—Continued

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
1947	h m		°	°	°	°				
May 10	12 49	8543	−8	352	−13	13	97	5	F	U. S. Naval.
		8543	−2	358	−12	9	242	2		
		8545	−1	359	−18	16	97	3		
		8545	+2	2	−16	13	48	1		
		8545	+8	8	−16	15	121	4		
		(*)	+41	41	+14	45	24	1		
		8535	+45	45	−13	46	267	1		
		8540	+55	55	+17	59	194	4		
		8540	+61	61	+19	64	339	1		
		8527	+65	65	−25	67	291	3		
		(10)		(0)	(−3)		2,932	43		
12	10 38	8556	−69	265	+10	70	194	1	F	Do.
		8555	−66	268	−12	66	24	2		
		8554	−55	279	−14	56	24	1		
		8548	−40	294	+23	46	267	3		
		8548	−30	304	+19	36	436	13		
		8547	−21	313	+20	32	291	3		
		8552	−21	313	−19	26	24	4		
		8551	−1	333	+26	29	12	1		
		8544	+17	351	+13	25	97	7		
		8544	+21	355	+11	25	436	2		
		8543	+23	357	−13	24	73	8		
		8543	+24	358	−12	25	242	1		
		8545	+31	5	−16	33	73	6		
		8550	+67	41	−19	69	242	3		
		8535	+70	44	−12	70	291	1		
		8540	+81	55	+17	81	145	2		
		(13)		(334)	(−3)		2,871	58		
13	10 23	8557	−69	252	−25	70	24	4	G	Do.
		8556	−55	266	+10	56	170	1		
		8555	−52	269	−12	52	24	4		
		8554	−40	281	−13	41	24	1		
		8553	−39	282	+20	44	73	9		
		8548	−30	291	+22	38	194	1		
		8548	−26	295	+22	35	61	9		
		8548	−18	303	+19	29	388	13		
		8547	−9	312	+21	25	291	7		
		8552	−8	313	−17	16	12	2		
		8544	+29	350	+12	32	145	7		
		8544	+36	357	+11	38	388	1		
		8543	+30	351	−15	32	12	2		
		8543	+37	358	−13	39	315	14		
		8545	+48	9	−16	50	48	3		
		8550	+79	40	−19	79	267	2		
		8535	+84	45	−12	84	291	1		
		(13)		(321)	(−3)		2,727	81		
14	10 6	8557	−55	253	−25	59	6	1	P	Do.
		8556	−41	267	+9	42	145	1		
		8555	−39	269	−12	40	12	1		
		8554	−27	281	−13	30	12	1		
		8553	−25	283	+20	34	24	2		
		8548	−17	291	+22	30	194	1		
		8548	−14	294	+22	29	24	3		
		8548	−4	304	+19	22	364	12		
		8547	+4	312	+21	24	291	7		
		8558	+30	338	+9	32	12	3		
		8544	+42	350	+12	44	24	10		
		8544	+49	357	+12	51	388	1		
		8543	+49	357	−12	50	97	7		
		8543	+51	359	−12	52	242	1		
		8545	+59	7	−15	60	12	2		
		(11)		(308)	(−3)		1,847	53		
15	8 59	8559	−56	240	−14	58	12	3	G	Mt. Wilson.
		8557	−42	254	−25	46	12	1		
		8556	−27	269	+10	31	170	1		
		8553	−13	283	+19	26	61	5		
		8548	−3	293	+21	24	194	5		
		8548	+8	304	+18	23	388	7		
		8547	+17	313	+21	30	267	4		
		8558	+44	340	+7	45	48	7		
		8544	+57	353	+13	59	24	4		
		8544	+63	359	+12	65	339	1		
		8543	+60	356	−12	61	61	5		
		8543	+65	1	−10	65	291	1		
		(9)		(296)	(−3)		1,867	44		
16	9 17	8568	−87	195	+17	87	97	1	G	Do.
		8568	−87	195	+19	87	48	1		
		8567	−78	204	+16	78	24	1		
		8566	−72	210	+20	74	12	2		
		8565	−68	214	−17	69	12	1		
		8564	−58	224	−30	62	48	4		
		8560	−58	224	+22	63	12	1		
		8559	−42	240	−15	44	6	1		
		8563	−36	246	+18	41	24	6		
		8557	−29	253	−26	36	24	5		
		8561	−19	263	−30	33	24	6		
		8562	−15	267	+10	20	12	4		

See footnotes at end of table.

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR MAY 1947—Continued

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
1947	h m		°	°	°	°				
May 16	9 17	8556	−14	268	+9	18	170	1	G	Mt. Wilson
		8553	−1	281	+20	23	61	14		
		8548	+9	291	+21	25	230	13		
		8548	+20	302	+18	30	291	8		
		8547	+25	307	+18	33	73	26		
		8547	+30	312	+21	38	339	7		
		8558	+58	340	+7	59	97	10		
		8544	+76	358	+10	76	291	6		
		8543	+80	2	−12	80	145	4		
		(18)		(282)	(−3)		2,040	122		
17	10 5	8572	−85	184	−14	85	97	1	G	U. S. Naval.
		8571	−85	184	+25	85	388	1		
		8568	−75	194	+18	76	873	6		
		8567	−65	204	+17	67	24	2		
		8566	−55	214	+20	58	12	4		
		8565	−50	219	−16	52	24	1		
		8564	−43	226	−27	48	291	7		
		8559	−26	243	−14	28	24	2		
		8557	−14	255	−25	26	12	1		
		8561	−7	262	−29	28	24	4		
		8570	−6	263	−16	15	12	1		
		8556	−1	268	+11	13	194	1		
		8553	+15	284	+21	27	24	6		
		8548	+22	291	+22	31	194	7		
		8548	+26	295	+22	35	48	2		
		8548	+36	305	+20	41	339	18		
		8547	+43	312	+21	48	242	5		
		8569	+45	314	−16	46	48	2		
		8558	+75	344	+7	75	97	1		
		(17)		(269)	(−2)		2,967	72		
18	10 58	8572	−78	177	−17	79	242	2	F	Do.
		8572	−70	185	−15	71	388	1		
		8578	−75	180	+11	75	194	1		
		8571	−70	185	+21	72	194	1		
		8571	−69	186	+25	71	145	1		
		8568	−65	190	+19	68	194	3		
		8568	−61	194	+15	63	436	5		
		8568	−58	197	+17	60	727	14		
		8567	−50	205	+15	53	24	1		
		8566	−41	214	+20	44	24	5		
		8565	−37	218	−16	40	24	1		
		8564	−29	226	−28	38	533	15		
		8577	−28	227	+23	37	48	5		
		8576	−23	232	+19	31	12	2		
		8575	−21	234	−9	22	12	2		
		8561	+7	262	−29	28	24	5		
		8556	+12	267	+11	18	194	3		
		8548	+35	290	+21	41	97	3		
		8548	+51	306	+19	54	291	18		
		8547	+57	312	+21	61	291	4		
		8569	+59	314	−17	60	48	4		
		(16)		(255)	(−2)		4,142	96		
19	10 43	8582	−80	162	−15	80	388	5	VG	Do.
		8572	−66	176	−17	66	242	4		
		8572	−60	182	−16	61	97	4		
		8572	−55	187	−15	56	242	10		
		8578	−62	180	+11	63	194	1		
		8571	−58	184	+21	61	242	5		
		8571	−55	187	+25	60	145	6		
		8568	−51	191	+19	54	194	14		
		8568	−45	197	+17	49	1,067	27		
		8568	−40	202	+16	44	145	9		
		8567	−35	207	+15	38	12	1		
		8566	−28	214	+19	35	24	2		
		8565	−23	219	−16	27	24	1		
		8577	−17	225	+23	30	48	9		
		8564	−17	225	−28	31	558	21		
		8575	−7	235	−9	10	48	28		
		8580	−6	236	+13	16	12	4		
		8579	+2	244	−13	11	12	2		
		8574	+4	246	+14	16	6	3		
		8556	+26	268	+11	29	194	1		
		8548	+47	289	+21	51	61	7		
		8548	+64	306	+18	66	291	15		
		8547	+70	312	+21	72	242	4		
		8569	+71	313	−17	72	194	5		
		(18)		(242)	(−2)		4,682	188		
20	10 13	8582	−75	154	−16	75	48	3	VG	Do.
		8582	−65	164	−15	66	388	12		
		8584	−70	159	−31	72	12	1		
		8581	−62	167	+20	65	12	3		
		8572	−51	178	−17	53	339	8		
		8572	−47	182	−16	49	194	19		
		8572	−42	187	−15	44	291	12		
		8578	−48	181	+11	50	194	1		
		8571	−45	184	+21	50	145	7		
		8571	−42	187	+25	49	194	7		
		8568	−39	190	+20	44	170	20		
		8568	−33	196	+17	38	1,018	22		

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR MAY 1947—Continued

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
1947	*h m*		°	°	°	°				
May 20	10 13	8568	−27	202	+17	33	48	10	VG	U. S. Naval.
		8567	−21	208	+15	27	12	1		
		8566	−11	218	+21	25	24	4		
		8564	−4	225	−28	27	630	18		
		8577	−3	226	+22	23	24	9		
		8583	−3	226	+9	12	6	1		
		8575	+6	235	−8	10	73	6		
		8580	+7	236	+13	16	24	7		
		8556	+38	267	+15	41	6	2		
		8556	+39	268	+11	41	170	1		
		8573	+43	272	+21	48	6	2		
		8548	+60	289	+21	63	48	2		
		8548	+72	301	+19	74	97	1		
		8547	+84	313	+21	84	242	4		
		8569	+85	314	−17	85	194	2		
		(19)		(229)	(−2)		4,609	185		
21	10 41	8587	−64	151	−32	67	24	2	VG	Do.
		8586	−64	151	−8	64	48	2		
		8582	−62	153	−15	63	97	5		
		8582	−52	163	−16	54	267	8		
		8581	−51	164	+23	56	24	2		
		8581	−48	167	+21	52	48	1		
		8572	−39	176	−17	41	206	1		
		8572	−34	181	−16	36	291	24		
		8572	−28	187	−15	31	218	1		
		8578	−35	180	+11	37	194	1		
		8571	−30	185	+23	38	364	18		
		8568	−27	188	+20	34	194	8		
		8568	−20	195	+19	29	630	19		
		8568	−17	198	+17	26	194	13		
		8585	−16	199	−12	19	48	4		
		8567	−7	208	+15	18	12	1		
		8566	+3	218	+20	22	73	6		
		8564	+7	222	−30	29	121	8		
		8564	+11	226	−27	28	267	11		
		8583	+11	226	+7	15	73	4		
		8577	+12	227	+22	26	97	10		
		8575	+21	236	−9	22	48	6		
		8580	+22	237	+12	26	48	5		
		8556	+53	268	+15	56	24	2		
		8556	+53	268	+11	54	145	1		
		8548	+75	290	+20	77	97	2		
		(18)		(215)	(−2)		3,852	165		
22	11 49	8588	−72	130	+31	76	48	1	F	Do.
		8586	−51	151	−7	51	48	4		
		8586	−47	155	−8	47	73	1		
		8582	−45	157	−16	46	267	15		
		8582	−38	164	−17	40	194	1		
		8581	−37	165	+23	44	291	17		
		8572	−26	176	−17	31	194	2		
		8572	−19	183	−16	24	339	22		
		8572	−14	188	−15	19	194	1		
		8578	−21	181	+11	25	194	1		
		8571	−17	185	+23	30	436	21		
		8568	−11	191	+18	22	97	10		
		8568	−5	197	+18	21	679	32		
		8568	0	202	+17	19	121	12		
		8585	−3	199	−12	10	145	11		
		8566	+16	218	+19	26	145	9		
		8564	+22	224	−29	35	776	20		
		8583	+27	229	+7	30	145	7		
		8577	+29	231	+20	35	97	7		
		8575	+35	237	−10	36	73	2		
		8580	+37	239	+11	39	61	3		
		8556	+67	269	+10	68	145	1		
		(16)		(202)	(−2)		4,762	200		
23	10 28	8588	−59	130	+31	64	48	1	F	Do.
		8586	−38	151	−9	39	242	8		
		8582	−30	159	−16	33	727	27		
		8581	−22	167	+23	32	436	16		
		8589	−21	168	−9	22	12	1		
		8572	−10	179	−17	17	291	15		
		8572	−4	185	−16	15	194	1		
		8578	−9	180	+10	14	194	1		
		8571	−4	185	+23	25	436	15		
		8568	0	189	+18	20	194	12		
		8568	+7	196	+17	21	582	26		
		8568	+12	201	+17	22	242	14		
		8585	+10	199	−12	14	73	3		
		8585	+14	203	−12	18	121	4		
		8566	+29	218	+20	35	194	8		
		8564	+32	221	−30	41	436	7		
		8564	+37	226	−28	43	436	16		
		8583	+40	229	+7	41	145	8		
		8577	+41	230	+22	40	218	7		
		8575	+50	239	−8	50	48	1		
		8580	+52	241	+12	54	48	1		
		8556	+80	269	+12	80	145	7		
		(17)		(189)	(−2)		5,462	199		

See footnotes at end of table.

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR MAY 1947—Continued

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
1947	*h m*		°	°	°	°				
May 24	10 50	8592	−63	113	−20	66	24	1	F	U. S. Naval.
		8591	−55	121	−23	57	194	3		
		8588	−44	132	+28	52	97	3		
		8586	−24	152	−9	25	436	13		
		8582	−19	157	−16	24	218	15		
		8582	−12	164	−17	19	436	13		
		8581	−12	164	+23	27	315	21		
		8581	−7	169	+21	23	364	9		
		8578	−4	172	+10	12	194	1		
		8572	+2	178	−17	16	97	9		
		8572	+8	184	−16	16	194	6		
		8572	+12	188	−15	17	194	1		
		8571	+9	185	+23	26	388	12		
		8568	+13	189	+18	24	145	15		
		8568	+20	196	+17	27	533	28		
		8568	+26	202	+17	33	242	15		
		8585	+26	202	−12	28	170	4		
		8566	+40	216	+21	45	194	10		
		8564	+48	224	−28	52	921	22		
		8583	+53	229	+7	54	170	5		
		8577	+54	230	+23	59	388	7		
		8575	+64	240	−8	64	48	1		
		8580	+65	241	+14	66	48	1		
		(17)		(176)	(−2)		6,010	215		
25	8 45	8594	−75	88	−42	78	145	3	VG	Mt. Wilson.
		8593	−70	93	−19	71	12	4		
		8592	−55	108	−29	60	48	15		
		8591	−43	120	−22	46	194	17		
		8588	−33	130	+31	46	48	18		
		8588	−21	142	+31	38	24	5		
		8586	−16	147	−9	18	170	15		
		8586	−8	155	−9	12	242	4		
		8582	−5	158	−15	13	267	45		
		8582	+1	164	−16	15	388	1		
		8590	−3	160	−20	18	12	7		
		8587	−2	161	−29	28	12	4		
		8581	0	163	+22	24	315	51		
		8581	+5	168	+20	22	412	1		
		8589	+4	167	−10	9	12	1		
		8578	+9	172	+11	15	194	1		
		8572	+15	178	−17	22	194	3		
		8572	+23	186	−15	26	194	20		
		8571	+22	185	+23	32	364	36		
		8568	+25	188	+19	32	145	30		
		8568	+32	195	+18	37	436	50		
		8568	+28	201	+18	43	170	31		
		8585	+33	196	−12	34	24	8		
		8585	+41	204	−12	42	97	2		
		8566	+52	215	+20	55	73	12		
		8564	+59	222	−29	62	873	3		
		8483	+66	229	+7	67	121	7		
		8577	+67	230	+23	70	364	8		
		8580	+78	241	+14	78	24	1		
		(21)		(163)	(−2)		5,574	403		
26	10 27	8594	−59	90	−43	66	194	5	G	U. S. Naval.
		8593	−55	94	−19	57	121	5		
		8592	−38	111	−28	45	48	9		
		8591	−28	121	−22	34	388	14		
		8588	−16	133	+29	33	36	7		
		8588	−7	142	+30	32	48	8		
		8586	−1	148	−9	8	73	7		
		8586	+8	157	−9	12	242	1		
		8595	+3	152	−32	31	12	3		
		8582	+12	161	−16	18	509	19		
		8581	+15	164	+23	28	436	21		
		8581	+21	170	+21	30	388	1		
		8572	+30	179	−17	33	24	6		
		8572	+37	186	−16	39	388	10		
		8578	+31	180	+10	33	194	1		
		8571	+37	186	+23	44	218	7		
		8568	+48	197	+18	51	485	13		
		8585	+58	207	−13	58	170	1		
		8566	+68	217	+20	70	24	2		
		8564	+75	224	−28	77	873	7		
		8577	+80	229	+24	82	339	3		
		(17)		(149)	(−1)		5,210	150		
27	10 26	8601	−80	56	+20	80	194	2	G	Do.
		8594	−55	81	−45	65	48	5		
		8594	−46	90	−42	58	121	1		
		8593	−47	89	−20	50	73	1		
		8593	−41	95	−21	45	194	8		
		8592	−25	111	−29	37	48	10		
		8591	−16	120	−23	26	388	16		
		8588	−8	128	+31	33	24	7		
		8588	−3	133	+27	28	24	3		
		8588	+6	142	+30	32	36	7		
		8586	+17	153	−9	18	24	10		
		8586	+21	157	−9	22	242	1		
		•	+21	157	−22	29	24	6		
		8582	+21	157	−17	26	145	13		

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR MAY 1947—Continued

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
1947	*h m*		°	°	°	°				
May 27	10 26	8582	+30	166	−17	33	315	27	G	U. S. Naval.
		8581	+27	163	+23	35	145	22		
		8581	+32	168	+21	38	485	8		
		8578	+39	175	+12	41	12	2		
		8578	+43	179	+10	44	194	1		
		8572	+50	186	−16	51	339	6		
		8571	+50	186	+23	54	145	2		
		8568	+56	192	+21	59	48	3		
		8568	+60	196	+18	62	533	12		
		8568	+66	202	+17	68	124	5		
		8585	+70	206	−13	70	121	1		
		8564	+87	223	−28	87	679	5		
		(16)		(136)	(−1)		4,625	184		
28	10 44	8605	−85	38	−12	85	291	3	G	Do.
		8606	−78	45	−22	78	533	6		
		8604	−76	47	−11	76	194	5		
		8603	−70	53	−36	73	24	2		
		8601	−67	56	+21	69	194	5		
		8602	−63	60	+17	65	24	1		
		8591	−44	79	−45	59	73	11		
		8594	−35	88	−42	52	97	1		
		8600	−35	88	+10	36	12	1		
		8593	−29	94	−20	34	242	9		
		8599	−25	98	−22	31	97	9		
		8592	−12	111	−30	32	61	7		
		*	−4	119	−16	15	12	1		
		8591	−3	120	−22	21	61	11		
		8591	+1	124	−22	20	194	1		
		*	0	123	+26	27	6	1		
		8586	+29	152	−10	30	24	6		
		8586	+35	158	−10	36	267	1		
		8582	+39	162	−18	41	679	16		
		8581	+41	164	+20	46	630	14		
		8578	+56	179	+9	57	194	1		
		8572	+60	183	−18	61	388	5		
		8571	+63	186	+21	65	291	4		
		8568	+76	199	+16	77	436	4		
		8585	+84	207	−14	84	97	2		
		(22)		(123)	(−1)		5,121	127		
29	10 25	8605	−70	40	−12	70	194	8	G	Do.
		8606	−66	44	−21	67	291	1		
		8606	−63	47	−20	64	291	10		
		8604	−60	50	−11	60	145	7		
		8603	−59	51	−35	62	61	3		
		8601	−53	57	+21	56	242	9		
		8602	−49	61	+17	51	24	3		
		8594	−34	76	−45	53	61	8		
		8594	−23	87	−42	46	121	1		
		8593	−18	92	−19	25	97	10		
		8593	−11	99	−19	21	194	1		
		8599	−12	98	−22	23	145	10		
		8596	−5	105	−19	18	12	3		
		8592	+1	111	−28	27	73	8		
		8598	+4	114	−4	5	24	2		
		8591	+11	121	−22	23	291	9		
		8597	+47	157	−22	50	6	1		
		8586	+49	159	−10	49	267	2		
		8582	+52	162	−17	53	679	7		
		8581	+52	162	+22	56	145	25		
		8581	+60	170	+20	62	1,164	1		
		8578	+69	179	+9	70	170	1		
		8572	+70	180	−17	70	145	4		
		8572	+80	190	−16	80	291	2		
		8571	+80	190	+22	81	145	1		
		8568	+88	198	+16	88	145	2		
		(21)		(110)	(−1)		5,423	139		
30	10 15	8605	−55	42	−13	55	194	6	F	Do.
		8606	−53	44	−21	55	242	1		
		8606	−49	48	−20	51	170	11		
		8604	−46	51	−11	47	73	5		
		8601	−41	56	+21	46	145	7		
		8594	−19	78	−45	47	97	8		
		8594	−10	87	−42	42	73	1		
		8593	−8	89	−20	20	73	1		
		8593	−2	95	−19	18	24	2		

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR MAY 1947—Continued

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
1947	*h m*		°	°	°	°				
May 30	10 15	8593	+3	100	−20	19	194	1	G	U. S. Naval.
		8599	+1	98	−22	21	291	7		
		8592	+10	107	−32	33	48	3		
		8592	+18	115	−27	32	73	7		
		8592	+19	116	−23	28	36	1		
		8591	+29	126	−22	35	291	1		
		8582	+61	158	−17	62	194	5		
		8582	+70	167	−17	70	582	1		
		8582	+80	177	−17	80	24	1		
		8586	+62	159	−10	62	339	1		
		8581	+68	165	+23	70	242	4		
		8581	+75	172	+21	76	970	2		
		(12)		(97)	(−1)		4,375	76		
31	10 15	8607	−88	355	+11	88	145	1	G	Do.
		8605	−47	36	−13	49	73	2		
		8605	−38	45	−12	39	121	14		
		8606	−41	42	−21	45	218	1		
		8606	−37	46	−20	41	242	22		
		8603	−32	51	−32	43	24	4		
		8604	−31	52	−11	32	48	1		
		8601	−28	55	+21	35	97	6		
		8594	−7	76	−45	45	36	7		
		8594	+1	84	−42	41	48	1		
		8593	+8	91	−20	20	61	5		
		8593	+18	101	−20	26	194	1		
		8599	+13	96	−22	24	242	6		
		8592	+24	107	−32	38	12	3		
		8592	+31	114	−27	39	24	7		
		8591	+32	115	−22	37	12	1		
		8591	+41	124	−22	45	218	2		
		8598	+38	121	−5	38	24	4		
		8582	+74	157	−17	74	194	4		
		8582	+85	168	−17	85	776	1		
		8586	+76	159	−10	76	339	1		
		8581	+85	168	+23	86	873	3		
		(15)		(83)	(−1)		4,021	97		

Mean daily area for 30 days =3,757
Mean 10 g+s for 30 days =269.1

*Not numbered.
VG=very good; G=good; F=fair; P=poor.

PROVISIONAL RELATIVE SUNSPOT NUMBERS FOR MAY 1947

[Dependent on observations at Zurich Observatory and its stations at Locarno and Arosa.]

May 1947	Relative numbers	May 1947	Relative numbers	May 1947	Relative numbers
1	165	11	175	21	210
2	156	12	169	22	255
3	177	13	155	23	300
4	188	14	141	24	306
5	142	15	122	25	341
6	158	16	136	26	396
7	173	17	168	27	304
8	163	18	176	28	279
9	154	19	223	29	276
10	163	20	212	30	234
				31	241

Mean, 31 days=206.5

U. S. GOVERNMENT PRINTING OFFICE: 1947