POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR AUGUST 1947

By LUCY T. DAY

[Equatorial Division, U. S. Naval Observatory]

[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*		°	°	°	°				
Aug. 1	10 20	8752	−80	263	−12	80	582	3	G	U. S. Naval.
		8752	−70	273	−10	72	436	3		
		8750	−67	276	−15	70	121	1		
		8749	−65	278	−9	67	109	2		
		8745	−29	314	−20	39	1,794	35		
		8744	−22	321	+20	25	48	10		
		8744	−20	323	+20	24	206	1		
		8748	+16	359	+18	21	24	3		
		8743	+18	1	−20	32	170	12		
		8743	+22	5	−21	35	436	1		
		8736	+24	7	+16	25	24	1		
		8751	+25	8	+29	34	12	1		
		(9)		(343)	(+6)		3,962	73		
2	10 27	8757	−88	242	−15	88	97	2	G	Do.
		8756	−75	255	+11	75	6	2		
		8752	−66	264	−12	68	630	6		
		8752	−58	272	−9	60	339	7		
		8750	−54	276	−14	58	145	1		
		8749	−50	280	−8	53	73	6		
		8745	−26	304	−20	37	364	1		
		8745	−16	314	−19	30	776	30		
		8745	−8	322	−18	27	509	1		
		8744	−10	320	+20	17	48	6		
		8744	−7	323	+20	16	170	1		
		8754	+8	338	−36	45	6	2		
		8748	+29	359	+18	31	24	7		
		8743	+29	359	−20	39	97	10		
		8743	+35	5	−20	44	339	1		
		8751	+37	7	+28	43	12	5		
		8736	+38	8	+16	39	24	1		
		(12)		(330)	(+6)		3,659	89		
3	13 40	8757	−74	241	−12	76	36	2	G	Do.
		8757	−68	247	−15	71	194	4		
		8756	−59	256	+11	59	121	6		
		8752	−49	266	−11	52	630	10		
		8752	−42	273	−9	45	315	15		
		8750	−39	276	−13	43	145	1		
		8749	−33	282	−9	36	97	2		
		8745	−10	305	−20	28	339	1		
		8745	0	315	−19	25	436	36		
		8745	+7	322	−18	26	533	1		
		8744	+4	319	+20	15	97	11		
		8744	+9	324	+20	17	170	1		
		8753	+33	348	+5	33	6	1		
		8743	+43	358	−19	50	73	5		
		8743	+50	5	−21	58	388	1		
		8748	+45	0	+17	47	12	2		
		8736	+52	7	+16	53	24	1		
		(11)		(315)	(+6)		3,616	100		
4	12 35	8759	−79	223	+6	79	12	1	VG	Do.
		8757	−61	241	−12	63	24	2		
		8757	−56	246	−15	60	194	3		
		8756	−46	256	+11	46	194	5		
		8752	−38	264	−11	43	776	13		
		8752	−30	272	−10	34	291	23		
		8750	−27	275	−12	32	145	1		
		8749	−20	282	−10	26	194	1		
		8755	−20	282	−27	38	24	5		
		(*)	−8	294	−12	20	6	1		
		8745	+4	306	−22	28	533	27		
		8745	+11	313	−19	27	291	25		
		8745	+20	322	−18	31	461	1		
		8744	+16	318	+20	21	24	10		
		8744	+20	322	+20	24	291	1		
		8743	+56	358	−20	62	24	5		
		8743	+62	4	−21	68	388	1		
		8748	+56	358	+17	57	12	3		
		8736	+64	6	+16	64	6	1		
		8751	+68	10	+29	70	6	1		
		(14)		(302)	(+6)		3,896	130		
5	10 20	8763	−82	208	+19	82	73	1	G	Do.
		8761	−75	215	+15	75	48	1		
		8762	−69	221	−20	72	145	8		
		8759	−64	226	+8	64	24	1		
		8757	−48	242	−12	52	12	1		
		8757	−42	248	−15	46	194	2		

See footnotes at end of table.

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR AUGUST 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*		°	°	°	°				
Aug. 5	10 20	8756	−35	255	+12	35	121	3	G	U. S. Naval.
		8756	−28	262	+10	28	97	9		
		8752	−24	266	−11	29	824	16		
		8752	−16	274	−9	22	291	29		
		8750	−13	277	−13	23	145	1		
		8749	−7	283	−10	17	97	1		
		8755	−6	284	−26	33	12	4		
		8760	+10	300	+18	15	12	2		
		8745	+17	307	−22	33	436	27		
		8745	+25	315	−19	35	218	20		
		8745	+32	322	−18	41	388	1		
		8744	+27	317	+16	29	6	1		
		8744	+33	323	+19	35	242	2		
		8743	+76	6	−21	78	388	1		
		(14)		(290)	(+6)		3,773	131		
6	10 26	8766	−83	194	−31	84	194	1	VG	Do.
		8765	−75	202	−13	78	12	2		
		8763	−72	205	+19	72	145	1		
		8763	−69	208	+19	69	291	1		
		8767	−67	210	+10	67	12	1		
		8762	−60	217	−21	66	170	3		
		8762	−53	224	−20	59	242	7		
		8759	−50	227	+9	50	24	1		
		8757	−36	241	−12	40	12	1		
		8757	−29	248	−15	35	36	1		
		8756	−21	256	+11	22	145	6		
		8756	−17	260	+9	18	109	7		
		8752	−11	266	−11	21	1,018	8		
		8752	−5	272	−9	16	388	12		
		8752	+3	280	−7	14	61	9		
		8750	0	277	−13	19	388	1		
		8749	+7	284	−10	18	145	1		
		8745	+30	307	−21	41	315	26		
		8745	+42	319	−18	48	533	13		
		8744	+46	323	+20	48	242	1		
		(13)		(277)	(+6)		4,482	103		
7	10 15	8768	−87	176	+13	87	194	1	G	Do.
		8767	−79	184	+10	79	242	3		
		8767	−69	194	+10	69	24	2		
		8766	−69	194	−31	74	291	1		
		8765	−62	201	−12	64	12	1		
		8763	−60	203	+19	60	97	2		
		8763	−55	208	+19	56	218	4		
		8759	−46	217	+7	46	12	3		
		8759	−39	224	+8	39	61	10		
		8762	−45	218	−21	53	121	15		
		8762	−39	224	−21	47	194	1		
		8757	−24	239	−10	28	48	12		
		8757	−16	247	−16	27	61	2		
		8756	−8	255	+11	10	145	12		
		8756	−1	262	+8	2	194	7		
		8764	−1	262	−18	24	388	23		
		8752	+3	266	−12	17	727	8		
		8752	+12	275	−10	20	485	35		
		8750	+13	276	−13	22	97	1		
		8749	+20	283	−10	26	97	1		
		8745	+43	306	−21	51	291	7		
		8745	+56	319	−18	61	461	8		
		8744	+60	323	+19	60	242	1		
		(15)		(263)	(+6)		4,702	160		
8	10 29	8768	−75	175	+13	75	194	1	F	Do.
		8770	−75	175	−28	80	194	2		
		8767	−70	180	+10	70	73	3		
		8767	−64	186	+9	64	242	1		
		8767	−58	192	+9	58	24	1		
		8767	−49	201	+9	49	48	3		
		8766	−56	194	−31	66	339	1		
		8763	−47	203	+19	48	73	4		
		8763	−41	209	+19	42	194	2		
		8765	−46	204	−12	48	12	1		
		8762	−31	219	−20	41	145	13		
		8762	−26	224	−20	37	170	1		
		8759	−25	225	+9	25	145	6		
		8757	−11	239	−11	20	12	3		
		8757	−2	248	−16	22	109	1		
		8756	+7	257	+10	8	351	6		
		8756	+14	264	+9	14	97	4		
		8764	+12	262	−19	28	533	12		
		8752	+17	267	−12	24	1,357	9		
		8750	+27	277	−13	32	73	1		
		8749	+32	282	−9	35	145	7		
		8745	+54	304	−21	61	48	4		
		8745	+70	320	−18	73	388	1		
		8744	+72	322	+19	72	242	1		
		(16)		(250)	(+6)		5,208	88		
9	11 21	8774	−85	151	+16	85	388	1	VG	Do.
		8770	−68	168	−27	72	48	1		
		8770	−61	175	−28	69	194	7		
		8768	−61	175	+13	61	145	5		
		8769	−59	177	+19	60	194	12		
		8769	−53	183	+18	54	339	11		

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR AUGUST 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*		°	°	°	°				
Aug. 9	11 21	8767	−50	186	+12	50	194	12	VG	U. S. Naval.
		8767	−46	190	+12	46	145	16		
		8767	−36	200	+10	36	97	12		
		8766	−41	195	−32	56	339	4		
		8765	−34	202	−12	38	12	1		
		8763	−32	204	+18	34	73	7		
		8763	−27	209	+17	29	218	5		
		8762	−20	216	−20	32	97	10		
		8762	−13	223	−20	29	218	14		
		8759	−11	225	+9	11	97	14		
		8757	+1	237	−11	17	12	1		
		8757	+11	247	−15	24	145	13		
		(*)	+4	240	−4	11	24	3		
		8756	+20	256	+10	21	48	5		
		8756	+27	263	+9	27	97	10		
		8764	+25	261	−19	35	315	27		
		8764	+31	267	−18	39	339	17		
		8752	+30	266	−12	34	339	6		
		8752	+35	271	−9	39	776	39		
		8750	+40	276	−13	44	97	1		
		8749	+45	281	−9	47	194	3		
		8744	+86	322	+19	86	194	2		
		(18)		(236)	(+6)		5,378	259		
10	18 43	8774	−70	149	+16	70	485	2	F	Mt. Wilson.
		8770	−48	171	−28	59	145	6		
		8768	−43	176	+12	43	145	2		
		8769	−42	177	+20	43	194	5		
		8769	−38	181	+17	39	291	4		
		8767	−39	180	+11	39	12	1		
		8767	−28	191	+12	29	776	42		
		8767	−17	202	+10	18	121	9		
		8773	−35	184	+26	40	12	1		
		8766	−26	193	−32	46	291	2		
		8763	−13	206	+17	18	85	5		
		8763	−9	210	+17	14	97	8		
		8762	−3	216	−20	26	85	17		
		8762	+3	222	−20	26	194	1		
		8759	+7	226	+9	8	170	17		
		8757	+28	247	−17	37	97	1		
		8764	+39	258	−19	45	242	21		
		8764	+49	268	−19	54	242	1		
		8756	+47	266	+9	47	24	1		
		8752	+48	267	−12	51	582	8		
		8752	+55	274	−9	57	291	12		
		8750	+57	276	−12	59	97	1		
		8749	+65	284	−9	67	206	4		
		8772	+67	286	−27	71	97	3		
		(17)		(219)	(+6)		4,981	174		
11	10 44	8774	−60	150	+16	60	485	2	G	U. S. Naval.
		8770	−38	172	−28	51	145	6		
		8769	−32	178	+20	34	109	4		
		8769	−29	181	+17	31	339	5		
		8768	−32	178	+12	32	97	1		
		8773	−27	183	+25	33	48	5		
		8767	−18	192	+12	20	1,018	53		
		8766	−17	193	−32	41	291	1		
		8765	−7	203	−12	20	12	2		
		8763	−6	204	+18	14	24	9		
		8763	+2	212	+17	11	145	8		
		8762	+7	217	−21	29	48	6		
		8762	+12	222	−21	30	194	4		
		8759	+17	227	+8	17	267	7		
		8757	+38	248	−17	44	121	4		
		8764	+48	258	−19	54	145	4		
		8764	+58	268	−20	63	242	5		
		8756	+54	264	+9	54	12	1		
		8752	+57	267	−13	60	412	5		
		8752	+65	275	−9	67	339	4		
		8750	+66	276	−15	70	73	1		
		8749	+72	282	−10	74	242	7		
		(17)		(210)	(+6)		4,808	144		
12	10 49	(*)	−56	141	+25	58	6	1	G	Do.
		8774	−46	151	+16	48	485	3		
		8770	−24	173	−28	42	121	2		
		8769	−23	174	+20	27	97	5		
		8769	−17	180	+19	22	24	10		
		8769	−14	183	+17	18	339	1		
		8768	−20	177	+12	22	97	1		
		8767	−19	178	+7	19	24	7		
		8767	−5	192	+10	5	873	47		
		8773	−13	184	+25	23	61	9		
		8766	−3	194	−32	38	291	1		
		8763	+15	212	+17	18	97	8		
		8762	+19	216	−20	32	12	1		
		8762	+28	225	−20	38	194	4		
		8759	+31	228	+8	31	436	2		
		8775	+43	240	−12	46	73	3		
		8757	+51	248	−17	58	61	2		
		8764	+61	258	−19	66	97	3		
		8764	+66	263	−19	70	12	1		
		8764	+72	269	−19	78	242	1		
		8752	+69	266	−13	71	388	1		

See footnotes at end of table.

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR AUGUST 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*		°	°	°	°				
Aug. 12	10 49	8752	+79	276	−9	81	339	1	G	U. S. Naval.
		8750	+78	275	−13	80	73	2		
		(16)		(197)	(+6)		4,442	116		
13	10 30	8782	−72	112	−20	76	24	2	G	Do.
		8779	−70	114	+18	71	97	1		
		8778	−36	148	+23	39	24	4		
		8774	−35	149	+15	37	48	9		
		8774	−33	151	+15	35	533	1		
		8776	−27	157	+7	27	48	7		
		8777	−26	158	+28	32	73	9		
		(*)	−9	175	+2	11	12	6		
		8770	−9	175	−29	37	97	2		
		8768	−7	177	+12	9	97	3		
		8769	−7	177	+19	14	73	13		
		8769	−1	183	+17	10	194	1		
		(*)	−5	179	+7	5	12	7		
		8773	−2	182	+25	19	48	6		
		8767	+8	192	+11	10	1,164	49		
		8767	+22	206	+11	23	12	1		
		8766	+10	194	−32	41	267	1		
		8763	+28	212	+18	31	97	8		
		8781	+29	213	+9	29	12	2		
		8762	+31	215	−20	41	6	1		
		8762	+41	225	−20	49	206	2		
		8780	+32	216	+17	33	12	5		
		8759	+44	228	+9	45	582	2		
		8775	+55	239	−9	57	36	3		
		8757	+65	249	−16	68	12	1		
		8764	+75	259	−19	78	121	3		
		8752	+82	266	−12	83	291	2		
		(23)		(184)	(+7)		4,198	151		
14	10 37	8785	−87	84	−14	88	97	1	G	Do.
		8784	−80	91	−22	82	24	3		
		8782	−59	112	−20	63	24	3		
		8779	−58	113	+18	58	242	4		
		8783	−31	140	−22	42	12	2		
		8774	−22	149	+13	23	48	5		
		8774	−20	151	+15	22	533	1		
		8776	−13	158	+9	14	24	4		
		8777	−11	160	+28	25	121	10		
		8770	+2	173	−29	37	97	2		
		8768	+7	178	+11	7	73	3		
		8769	+7	178	+19	14	61	10		
		8769	+11	182	+18	16	194	1		
		8773	+10	181	+25	21	12	4		
		8767	+20	191	+11	21	1,357	52		
		8767	+35	206	+10	35	12	1		
		8766	+22	193	−32	43	218	1		
		(*)	+29	200	−14	35	12	3		
		8763	+41	212	+17	42	24	5		
		8781	+43	214	+7	43	48	6		
		8780	+45	216	+13	45	48	13		
		8762	+53	224	−21	58	194	1		
		8759	+57	228	+9	57	582	2		
		8775	+70	241	−13	72	97	3		
		8757	+78	249	−18	80	24	1		
		(22)		(171)	(+7)		4,178	141		
15	10 39	8785	−72	86	−15	74	194	1	G	Do.
		8784	−67	91	−22	71	194	6		
		8779	−47	111	+18	47	97	8		
		8779	−42	116	+19	43	218	1		
		8782	−46	112	−19	52	24	5		
		8783	−20	138	−22	34	97	5		
		8774	−8	150	+13	11	73	8		
		8774	−6	152	+15	10	533	1		
		8776	+2	160	+9	3	12	3		
		8777	+2	160	+29	22	73	4		
		8770	+12	170	−29	38	121	1		
		8769	+18	176	+20	22	36	3		
		8769	+22	180	+17	23	242	2		
		8768	+20	178	+11	21	61	1		
		8773	+27	185	+27	33	12	3		
		8767	+33	191	+11	33	1,357	45		
		8766	+34	192	−32	51	206	1		
		8763	+53	211	+17	53	12	2		
		8781	+60	218	+7	60	12	1		
		8780	+60	218	+12	60	24	4		
		8762	+66	224	−21	70	194	1		
		8759	+70	228	+9	70	485	2		
		(19)		(158)	(+7)		4,277	108		
16	10 35	8785	−59	85	−15	62	194	1	F	Do.
		8784	−57	87	−22	62	97	4		
		8784	−50	94	−22	57	194	4		
		8779	−35	109	+17	39	73	4		
		8779	−29	115	+18	30	315	5		
		8782	−32	112	−19	40	24	3		
		8783	−10	134	−20	28	97	5		
		8783	−4	140	−20	28	48	3		
		8774	+7	151	+14	11	533	1		
		8774	+8	152	+12	10	121	8		

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR AUGUST 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*		°	°	°	°				
Aug. 16	10 35	8776	+15	159	+9	16	12	3	F	U. S. Naval.
		8777	+17	161	+29	27	24	2		
		8770	+27	171	−29	43	145	2		
		8768	+34	178	+11	34	24	1		
		8769	+37	181	+17	38	242	2		
		8767	+47	191	+11	47	1,406	42		
		8766	+47	191	−32	60	242	1		
		8763	+67	211	+17	67	24	1		
		8762	+80	224	−21	82	97	1		
		8759	+82	226	+8	82	485	2		
		(16)		(144)	(+7)		4,397	95		
17	11 5	8786	−63	68	−16	67	24	2	F	Mt. Wilson.
		8785	−45	86	−15	50	145	1		
		8784	−43	88	−22	51	170	5		
		8784	−36	95	−22	45	242	8		
		8779	−19	112	+19	22	109	13		
		8779	−15	116	+18	19	242	1		
		8782	−18	113	−21	33	24	4		
		8783	+8	139	−20	28	97	13		
		8774	+20	151	+15	22	533	1		
		8774	+22	153	+15	23	97	4		
		8777	+25	156	+31	34	12	1		
		8776	+29	160	+9	29	12	2		
		8770	+42	173	−29	53	121	1		
		8768	+48	179	+12	48	12	1		
		8769	+51	182	+17	51	218	1		
		8767	+60	191	+12	60	436	14		
		8767	+75	206	+9	75	582	5		
		8766	+62	193	−31	69	218	1		
		(14)		(131)	(+7)		3,294	78		
18	9 30	8786	−51	67	−16	56	12	1	VG	Do.
		8785	−31	87	−14	37	145	1		
		8784	−30	88	−22	41	145	10		
		8784	−23	95	−22	37	218	3		
		8782	−10	108	−21	30	24	6		
		8782	−5	113	−20	28	48	8		
		8779	−7	111	+19	14	73	16		
		8779	−2	116	+18	12	218	1		
		8783	+21	139	−20	34	73	10		
		8774	+23	141	+17	25	48	12		
		8774	+32	150	+16	33	97	19		
		8774	+33	151	+15	34	485	1		
		8770	+56	174	−28	64	73	2		
		8769	+63	181	+18	63	194	4		
		8767	+73	191	+12	73	436	9		
		8767	+88	206	+9	88	582	3		
		8766	+75	193	−31	80	218	1		
		(11)		(118)	(+7)		3,089	109		
19	12 4	8788	−50	54	−20	57	170	5	F	U. S. Naval.
		8786	−37	67	−16	43	12	1		
		8787	−28	76	−12	34	12	3		
		8785	−17	87	−15	28	145	1		
		8784	−16	88	−22	32	97	8		
		8784	−8	96	−21	29	218	4		
		8779	+6	110	+19	13	36	7		
		8779	+11	115	+19	17	194	1		
		8783	+34	138	−22	44	48	6		
		8783	+39	143	−21	47	24	2		
		8774	+48	152	+14	48	485	1		
		8770	+68	172	−29	72	24	1		
		8769	+77	181	+18	77	121	1		
		(10)		(104)	(+7)		1,586	41		
20	10 30	8788	−39	53	−21	47	48	2	G	Do.
		8788	−36	56	−19	44	121	7		
		8787	−14	78	−12	23	48	4		
		8785	−6	86	−15	23	109	1		
		8784	−4	88	−24	32	73	10		
		8784	+3	95	−24	32	267	5		
		8782	+21	113	−21	35	12	6		
		8779	+22	114	+19	25	218	7		
		8783	+47	139	−22	54	109	12		
		8774	+60	152	+13	60	436	1		
		8774	+60	152	+12	60	12	4		
		(8)		(92)	(+7)		1,453	59		
21	9 58	8790	−78	1	+18	78	48	4	F	Mt. Wilson.
		8789	−77	2	−20	79	194	1		
		8788	−22	57	−19	34	48	1		
		8786	−10	69	−14	23	24	2		
		8787	0	79	−12	19	24	6		
		8785	+9	88	−15	24	97	1		
		8784	+10	89	−24	33	48	3		
		8784	+18	97	−24	36	145	4		
		8779	+36	115	+19	37	145	2		
		8783	+59	138	−20	63	73	2		
		8774	+74	153	+14	74	436	1		
		(10)		(79)	(+7)		1,282	27		

See footnotes at end of table.

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR AUGUST 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*		°	°	°	°				
Aug. 22	14 30	8790	−63	0	+16	63	48	3	G	U. S. Naval.
		8789	−63	0	−22	69	12	1		
		8789	−60	3	−21	65	170	1		
		8788	−6	57	−17	27	24	2		
		8788	−4	59	−15	23	36	2		
		8787	+13	76	−12	22	12	1		
		8785	+24	87	−15	32	97	1		
		8784	+26	89	−24	40	24	5		
		8784	+32	95	−24	45	73	6		
		8779	+51	114	+19	51	121	5		
		8774	+84	147	+13	84	388	1		
		(8)		(63)	(+7)		1,005	28		
23	10 14	8790	−57	355	+17	57	12	4	VG	Do.
		8790	−51	1	+16	51	48	4		
		8789	−51	1	−22	59	12	6		
		8789	−48	4	−21	54	145	1		
		8791	−40	12	−17	47	12	1		
		8785	+35	87	−15	41	73	1		
		8784	+42	94	−24	51	24	4		
		8779	+63	115	+19	63	109	3		
		(6)		(52)	(+7)		435	24		
24	14 10	8792	−85	312	+20	85	388	6	G	Do.
		8792	−79	318	+19	79	97	1		
		8790	−42	355	+17	43	12	2		
		8790	−35	2	+17	37	24	2		
		8789	−36	1	−22	46	12	2		
		8789	−30	7	−21	41	121	1		
		8791	−27	10	−17	37	48	7		
		8791	−23	14	−17	33	48	1		
		8794	−10	27	+31	26	97	11		
		8793	+16	53	+28	27	6	1		
		8785	+50	87	−15	54	73	1		
		8784	+58	95	−24	64	12	1		
		8779	+79	116	+19	79	194	1		
		(9)		(37)	(+7)		1,132	37		
25	10 26	8792	−78	307	+20	78	315	3	G	Do.
		8792	−72	313	+21	73	291	9		
		8792	−67	318	+19	67	73	1		
		8790	−30	355	+17	32	6	3		
		8790	−23	2	+17	26	12	1		
		8789	−19	6	−21	33	109	1		
		8791	−15	10	−17	29	24	5		
		8791	−11	14	−17	27	97	4		
		8794	+2	27	+31	24	194	15		
		8793	+29	54	+29	35	12	4		
		8785	+62	87	−15	66	73	1		
		(7)		(25)	(+7)		1,206	47		
26	10 34	8796	−83	289	+16	83	194	2	G	Do.
		8792	−65	307	+20	65	291	5		
		8792	−57	315	+21	58	388	22		
		8795	−38	334	+11	38	12	3		
		8790	−18	354	+17	21	48	4		
		8790	−12	0	+17	16	24	1		
		8789	−5	7	−21	29	97	1		
		8791	−2	10	−17	25	242	6		
		8794	+10	22	+31	26	24	2		
		8794	+16	28	+30	27	194	1		
		(*)	+35	47	−16	42	12	3		
		8785	+76	88	−15	79	48	1		
		(9)		(12)	(+7)		1,574	51		
27	9 11	8799	−81	279	+16	81	194	1	VG	Mt. Wilson.
		8798	−79	281	−14	81	339	4		
		8797	−78	282	−9	79	679	1		
		(*)	−75	285	+11	75	12	3		
		8796	−70	290	+17	72	242	6		
		8792	−54	306	+22	55	121	1		
		8792	−46	314	+23	47	533	60		
		9792	−39	321	+21	41	36	1		
		8792	−35	325	+21	37	24	7		
		8795	−27	333	+12	28	12	1		
		8795	−25	335	+11	26	6	2		
		8790	−4	356	+17	12	24	2		
		8789	+9	9	−20	28	121	2		
		8791	+11	11	−17	27	73	22		
		8791	+13	13	−18	28	121	4		
		8794	+23	23	+31	33	16	10		
		8794	+30	30	+30	37	145	1		
		(11)		(0)	(+7)		2,698	128		
28	12 44	8803	−80	265	−12	80	145	2	VG	U. S. Naval.
		8802	−76	269	−16	79	206	1		
		8801	−75	270	+17	76	12	3		
		8799	−68	277	+14	68	194	1		
		8798	−68	277	−16	70	194	1		
		8798	−63	282	−16	65	267	2		
		8797	−62	283	−10	64	679	2		
		8796	−59	286	+16	59	48	4		

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR AUGUST 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*		°	°	°	°				
Aug. 28	12 44	8792	−39	306	+20	40	109	1	VG	U. S. Naval.
		8792	−30	315	+21	33	436	45		
		8800	−18	327	−22	34	24	7		
		8795	−10	335	+11	11	73	7		
		8790	+11	356	+17	15	12	4		
		8789	+18	3	−22	33	6	3		
		8789	+25	10	−21	37	97	4		
		8791	+29	14	−19	39	194	11		
		8794	+41	26	+31	46	121	1		
		(14)		(345)	(+7)		2,817	99		
29	10 20	8806	−85	248	−15	85	145	1	G	Do.
		8805	−79	254	+18	79	12	2		
		8803	−67	266	−12	69	194	5		
		8802	−62	271	−16	66	194	1		
		8801	−62	271	+17	62	121	10		
		8799	−55	278	+15	55	194	1		
		8798	−54	279	−16	59	194	2		
		8798	−50	283	−16	54	206	2		
		8797	−50	283	−10	52	582	7		
		8796	−47	286	+16	47	12	4		
		8804	−45	288	+11	45	12	5		
		8792	−27	306	+20	30	97	1		
		8792	−19	314	+20	22	291	36		
		8795	+3	336	+11	6	97	10		
		8789	+37	10	−21	46	97	7		
		8791	+41	14	−18	48	121	12		
		8794	+53	26	+31	56	97	3		
		(15)		(333)	(+7)		2,666	109		
30	10 36	8807	−88	231	+10	88	242	1	G	Do.
		8806	−71	248	−15	73	194	1		
		8805	−63	256	+19	63	12	2		
		8803	−54	265	−11	56	218	9		
		8802	−49	270	−16	53	194	3		
		8801	−49	270	+17	49	145	7		
		8799	−42	277	+15	42	194	1		
		8798	−41	278	−16	46	145	2		
		8798	−36	283	−16	43	206	1		
		8797	−36	283	−10	40	436	3		
		8797	−35	284	−8	38	12	1		
		8804	−31	288	+10	31	48	1		
		8792	−13	306	+20	18	61	1		
		8792	−5	314	+20	14	291	20		
		8795	+15	334	+9	16	145	8		
		8795	+20	339	+8	20	97	3		
		8789	+50	9	−21	57	194	10		
		8791	+54	13	−18	59	145	5		
		8794	+66	25	+31	68	73	1		
		(15)		(319)	(+7)		3,052	80		
31	10 56	8807	−74	232	+10	74	291	3	F	Do.
		8806	−57	249	−15	61	194	1		
		8803	+40	266	−11	43	194	7		
		8801	−35	271	+17	37	218	6		
		8802	+34	272	−16	40	194	1		
		8799	−29	277	+15	31	206	1		
		8798	−27	279	−16	36	97	1		
		8798	−22	284	−16	31	194	1		
		8797	−22	284	−10	27	388	7		
		8804	−18	288	+10	18	24	2		
		8792	+1	307	+20	13	48	1		
		8792	+9	315	+21	17	291	16		
		8795	+31	337	+10	31	339	12		
		8789	+63	9	−21	68	194	5		
		8791	+68	14	−19	70	242	2		
		8794	+79	25	+31	79	73	1		
		(14)		(306)	(+7)		3,187	67		

Mean daily area for 31 days=3,240
Mean 10 g+s for 31 days =231.4

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

PROVISIONAL RELATIVE SUNSPOT NUMBERS FOR AUGUST 1947

August 1947	Relative numbers	August 1947	Relative numbers	August 1947	Relative numbers
1	138	11	320	21	103
2	155	12	298	22	90
3	210	13	295	23	80
4	220	14	286	24	82
5	192	15	271	25	104
6	204	16	262	26	92
7	257	17	215	27	124
8	251	18	186	28	151
9	299	19	150	29	181
10	313	20	126	30	208
				31	217

Mean, 31 days=196. 1

U. S. GOVERNMENT PRINTING OFFICE: 1947