POSTIONS, AREAS, AND COUNTS OF SUNSPOTS FOR JUNE 1941

[Communicated by Capt. J. F. Hellweg, U. S. Navy (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 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
1941	h	m		°	°	°	°				
June 1	15	14	8099	−48	138	−6	48	97	1	F	U. S. Naval.
			8098	−48	138	−18	50	48	1		
			8098	−36	150	−18	39	121	1		
					(186)	(−1)		266	3		
June 2	10	58	8099	−36	139	−6	37	97	1	G	Mt. Wilson.
			8098	−28	147	−17	33	24	1		
			8098	−25	150	−18	30	145	1		
					(175)	(0)		266	3		
June 3	8	40	8101	−78	85	+13	78	242	2	VG	Do.
			8099	−23	140	−6	24	109	3		
			8098	−17	146	−17	24	48	8		
			8098	−13	150	−17	21	194	1		
			8100	+8	171	−10	13	48	9		
					(163)	(0)		641	23		
June 4	11	28	8101	−62	86	+12	64	291	12	G	Do.
			8099	−8	140	−7	11	97	1		
			8098	+1	149	−18	18	291	11		
			8100	+22	170	−10	24	97	10		
					(148)	(0)		776	34		
June 5	8	31	8101	−49	88	+12	50	436	26	VG	Do.
			8102	−28	109	−18	32	12	1		
			8099	+4	141	−7	9	97	2		
			8098	+14	151	−18	23	388	19		
			8100	+36	173	−10	37	73	12		
					(137)	(0)		1,006	60		
June 6	11	8	8101	−35	87	+12	37	436	18	G	U. S. Naval.
			8099	+19	141	−7	20	73	1		
			8098	+28	150	−18	33	448	15		
			(*)	+48	170	+12	50	12	1		
					(122)	(0)		969	35		
June 7	12	12	8105	−67	41	−11	69	12	5	VG	Do.
			(*)	−42	66	+16	45	36	5		
			8104	−31	77	+5	32	24	4		
			8101	−21	87	+12	24	436	34		
			(*)	−5	103	+3	6	12	2		
			8099	+32	140	−7	32	73	1		
			(*)	+37	145	+7	39	48	5		
			8098	+43	151	−19	47	291	12		
					(108)	(0)		932	68		
June 8	11	34	8105	−50	45	−10	51	97	3	G	Do.
			(*)	−26	69	+16	31	12	2		
			8104	−18	77	+6	20	48	2		
			8101	−8	87	+12	14	630	49		
			8099	+44	139	−7	45	73	5		
			8103	+49	144	+6	50	36	3		
			8098	+56	151	−18	59	242	9		
					(95)	(0)		1,138	73		
June 9	11	34	8107	−70	12	+6	70	194	5	G	Do.
			(*)	−70	12	−2	70	24	1		
			8105	−37	45	−10	38	97	11		
			8106	−13	69	+12	18	24	1		
			8104	−4	78	+6	9	73	6		
			8101	+5	87	+12	13	679	40		
			8099	+59	141	−7	60	73	5		
			8103	+63	145	+7	63	121	6		
			8098	+70	152	−18	72	242	8		
					(82)	(0)		1,527	83		
June 10	11	2	(*)	−57	12	−4	57	12	1	G	Do.
			8107	−56	13	+6	56	242	10		
			8105	−21	48	−10	23	97	14		
			8106	−1	68	+12	12	24	2		
			8104	+9	78	+6	11	24	6		
			8101	+19	88	+12	23	533	30		
			8099	+70	139	−7	70	61	4		
			8103	+76	145	+7	76	97	6		
			8098	+85	154	−18	85	48	2		
					(69)	(0)		1,138	75		

POSTIONS, AREAS, AND COUNTS OF SUNSPOTS FOR JUNE 1941—*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
1941	h	m		°	°	°	°				
June 11	13	5	8107	−41	14	+6	41	315	12	G	U. S. Naval.
			8105	−7	48	−10	13	194	22		
			8106	+14	69	+12	17	24	2		
			8104	+24	79	+7	25	24	1		
			8101	+33	88	+12	35	485	23		
					(55)	(+1)		1,042	60		
June 12	8	33	8107	−28	16	+6	29	339	20	VG	Mt. Wilson.
			8105	+4	48	−10	12	242	25		
			8106	+27	71	+13	30	24	2		
			8104	+37	81	+7	37	24	1		
			8101	+46	90	+12	47	436	35		
					(44)	(+1)		1,065	83		
June 13	8	31	8107	−15	16	+6	16	339	15	VG	Do.
			8105	+17	48	−10	21	194	14		
			8106	+39	70	+13	40	48	3		
			8101	+59	90	+12	59	388	19		
					(31)	(+1)		969	51		
June 14	10	32	8107	0	16	+5	4	388	18	VG	U. S. Naval.
			8105	+28	44	−10	30	73	10		
			8105	+39	55	−10	40	48	4		
			(*)	+55	71	+15	56	48	9		
			8101	+71	87	+13	71	291	8		
					(16)	(+1)		848	49		
June 15	12	0	(*)	−65	297	+6	65	6	1	F	Do.
			8107	+9	11	+6	11	48	7		
			8107	+18	20	+5	18	291	11		
			8105	+39	41	−10	40	24	9		
			8105	+50	52	−10	51	48	1		
			8101	+80	82	+13	80	145	2		
					(2)	(+1)		562	31		
June 16	11	52	8107	+32	21	+5	32	267	1	G	Do.
			8105	+66	55	−10	66	24	1		
					(349)	(+1)		291	2		
June 17	11	28	8109	−61	275	−6	61	24	3	F	Do.
			8108	+5	341	−16	17	12	2		
			8107	+45	21	+4	45	267	1		
					(336)	(+1)		303	6		
June 18	11	46	8109	−48	275	−6	49	121	8	VG	Do.
			8108	+17	206	−15	23	12	4		
			8107	+59	22	+4	59	267	1		
					(323)	(+1)		400	13		
June 19	13	4	8109	−34	275	−6	35	85	7	VG	Do.
			8108	+31	340	−15	35	73	8		
			8107	+73	22	+4	73	242	1		
					(309)	(+2)		400	16		
June 20	11	53	8111	−70	226	+8	70	48	1	VG	Do.
			8109	−20	276	−6	22	48	9		
			8110	+3	299	+8	7	24	6		
			8108	+43	339	−15	46	145	8		
			8107	+87	23	+4	87	194	1		
					(296)	(+2)		459	25		
June 21	11	19	8111	−56	227	+7	56	48	3	VG	Do.
			8109	−6	277	−5	10	24	2		
			8110	+17	300	+8	19	97	19		
			8108	+58	341	−14	60	145	11		
					(283)	(+2)		314	35		
June 22	8	32	8113	−84	188	−7	84	194	1	G	Mt. Wilson.
			8112	−58	214	+15	59	12	1		
			8111	−42	230	+9	43	48	9		
			8110	+31	303	+8	32	97	20		
			8108	+73	345	−15	74	97	8		
					(272)	(+2)		448	39		
June 23	13	42	8113	−71	185	−8	72	339	4	F	U. S. Naval.
			8112	−43	213	+12	44	145	12		
			8111	−27	229	+8	28	121	10		
			(*)	+44	300	−4	44	12	1		
			8110	+45	301	+8	46	48	6		
					(256)	(+2)		665	33		

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR JUNE 1941—*Continued*

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1941	h m		°	°	°	°				
June 24	14 56	8113	−63	179	−5	64	12	1	VG	U. S. Naval.
		8113	−57	185	−8	58	291	10		
		8112	−29	213	+12	31	388	16		
		8111	−13	229	+8	14	121	18		
		8110	+59	301	+8	59	12	1		
				(242)	(+2)		824	46		
June 25	13 2	(*)	−50	179	−5	50	12	3	G	Do.
		8113	−44	185	−9	45	194	9		
		8112	−16	213	+13	20	436	12		
		8111	−4	225	+9	8	24	8		
		8111	+1	230	+7	5	194	20		
		8114	+3	232	−7	10	12	1		
				(229)	(+2)		872	53		
June 26	11 40	8116	−56	161	−5	57	6	2	G	Do.
		8115	−53	164	+5	53	6	1		
		8113	−31	186	−9	33	194	10		
		8112	−3	214	+13	11	436	20		
		8111	+14	231	+7	15	242	14		
				(217)	(+2)		884	47		
June 27	12 14	8118	−83	120	+12	83	582	3	G	Do.
		8117	−78	125	+4	78	170	5		
		8116	−42	161	−6	43	24	3		
		8113	−18	185	−7	21	73	8		
		8112	+11	214	+14	16	436	24		
		8111	+28	231	+8	29	170	9		
				(203)	(+2)		1,455	52		
1941-Con.	h m		°	°	°	°				
June 28	10 58	8118	−67	124	+12	67	485	4	VG	U. S. Naval.
		8117	−64	127	+4	64	339	11		
		8119	−37	154	+6	37	6	1		
		8116	−30	161	−8	32	48	5		
		8113	−3	188	−7	10	12	2		
		8112	+24	215	+14	26	436	23		
		8111	+40	231	+8	40	121	9		
				(191)	(+3)		1,447	55		
June 29	8 35	8118	−56	123	+13	57	485	10	G	Mt. Wilson.
		8117	−54	125	+5	54	339	12		
		8119	−27	152	+8	27	6	1		
		8120	−21	158	−3	22	6	12		
		8116	−16	163	−7	19	97	19		
		8113	+10	189	−7	14	24	8		
		8112	+38	217	+15	39	339	44		
		8111	+53	232	+8	53	145	3		
				(179)	(+3)		1,441	109		
1941 June 30	10 54	8118	−43	121	+12	43	485	13	G	U. S. Naval.
		8117	−39	125	+4	39	339	10		
		8120	−8	156	−3	10	24	2		
		8116	+3	167	−7	10	48	4		
		8113	+24	188	−7	26	24	7		
		8112	+52	216	+15	53	436	21		
		8111	+68	232	+8	68	121	4		
				(164)	(+3)		1,477	61		

Mean daily area for 30 days.....=828

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

SPECIAL NOTE.—An inadvertent increase of 900 was made at Mount Wilson in the numbering of the sunspot groups following No. 7099. Groups numbered 8000 to 8120, inclusive, should have been 7100 to 7220, respectively. All Mount Wilson group numbers from 8000 to 8120, inclusive, should be decreased by 900. Corrections are required in the January, February, March, April, May, and June 1941 issues of the MONTHLY WEATHER REVIEW.

PROVISIONAL RELATIVE SUNSPOT NUMBERS FOR MAY 1941

[Based on observations at Zurich and Locarno. Data furnished through the courtesy of Prof. W. Brunner, Eidgenössische Sternwarte, Zurich, Switzerland]

May 1941	Relative numbers	May 1941	Relative numbers	May 1941	Relative numbers
1	*d* 44	11	23	21	*Eac* 48
2	*a* 38	12	*a* 31	22	*Ec* 45
3	*40	13	29	23	58
4	37	14	22	24	*a* 43
5	49	15	*d* 26	25	26
6	*a* 32	16	*a* 32	26	*a* —
7	14	17	38	27	16
8	12	18	23	28	16
9	*d* 28	19	*Ec*? —	29	15
10	*Ec* 21	20	28	30	*d* 11
				31	*d* 31

Mean, 29 days=29.9

*=Observed at Locarno.
a=Passage of an average-sized group through the central meridian.
b=Passage of a large group through the central meridian.
c=New formation of a group developing into a middle-sized or large center of activity: *E*, on the eastern part of the sun's disk; *W*, on the western part; *M*, in the central-circle zone.
d=Entrance of a large or average-sized center of activity on the east limb.