POSITIONS, AREAS, AND COUNTS OF SUN SPOTS FOR MARCH 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		°	°	°	°				
Mar. 1	11	36	8039	−51	272	+12	54	121	4	G	U. S. Naval.
			8034	−2	321	+11	18	218	2		
			8037	+12	335	+8	19	48	3		
			8032	+32	355	+16	39	436	12		
					(323)	(−7)		823	21		
Mar. 2	12	11	8039	−37	272	+12	42	97	4	F	Do.
			8034	+11	320	+10	21	206	1		
			8037	+22	331	+8	27	12	1		
			8032	+46	355	+15	50	291	10		
					(309)	(−7)		606	16		
Mar. 3	11	13	(*)	−49	248	+12	52	121	8	F	Do.
			8039	−27	270	+12	33	12	2		
			(*)	−19	278	+11	26	61	2		
			8034	+23	320	+10	28	242	4		
			(*)	+55	352	+17	60	6	1		
			8032	+59	356	+15	62	291	6		
					(297)	(−7)		733	23		
Mar. 4	11	47	8041	−58	225	+13	61	48	5	G	Do.
			(*)	−50	233	+15	55	24	3		
			8040	−35	248	+12	40	97	6		
			(*)	−6	277	+11	19	248	6		
			8034	+37	320	+9	41	242	9		
			8032	+73	356	+15	75	242	5		
					(283)	(−7)		701	34		
Mar. 5	12	[illegible]	8041	−44	226	+12	48	97	4	G	Do.
			8040	−23	247	+12	30	24	1		
			8040	−19	251	+11	26	48	2		
			(*)	−11	259	−10	12	24	4		
			8039	−1	269	+12	19	24	1		
			8039	+9	279	+12	21	36	1		
			8034	+50	320	+9	53	242	8		
					(270)	(−7)		495	21		
Mar. 6	12	9	8041	−30	227	+12	36	73	2	F	Do.
			8040	−9	248	+12	21	36	7		
			8040	−4	253	+10	17	36	2		
			8043	+3	260	+12	20	24	3		
			8039	+12	269	+12	23	24	4		
			8042	+62	319	−6	62	24	1		
			8034	+64	321	+9	66	242	3		
					(257)	(−7)		459	22		
Mar. 7	11	26	8041	−18	226	+11	25	48	4	F	Mt. Wilson.
			8040	+8	252	+11	20	73	8		
			8043	+17	261	+12	25	36	8		
			8042	+76	320	−6	76	36	2		
			8034	+79	323	+9	79	194	1		
					(244)	(−7)		387	23		
Mar. 8	11	36	8040	+22	253	+10	28	48	4	F	Do.
			8043	+30	261	+12	35	194	10		
					(231)	(−7)		242	14		
Mar. 9	11	47	8044	−73	144	−7	73	97	4	VG	U. S. Naval.
			8040	+37	254	+9	40	12	3		
			8043	+44	261	+10	48	376	14		
					(217)	(−7)		485	21		
Mar. 10	12	2	8044	−59	145	−7	59	194	6	G	Do.
			8045	−26	178	+16	35	12	4		
			8043	+57	261	+10	60	436	10		
					(204)	(−7)		642	20		
Mar. 11	13	15	8046	−49	141	+15	54	12	2	G	Do.
			8044	−45	145	−7	45	194	12		
			8045	−12	178	+15	26	230	16		
			8043	+71	261	+10	73	485	6		
					(190)	(−7)		921	36		

POSITIONS, AREAS, AND COUNTS OF SUN SPOTS FOR MARCH 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		°	°	°	°				
Mar. 12	10	58	8046	−36	142	+15	42	12	2	VG	U. S. Naval.
			8044	−32	146	−7	32	109	10		
			8045	+1	179	+15	22	218	18		
			8043	+82	260	+11	84	194	3		
					(178)	(−7)		533	33		
Mar. 13	11	48	8044	−19	146	−7	19	121	7	P	Do.
			8045	+14	179	+15	26	315	12		
					(165)	(−7)		436	19		
Mar. 14	11	27	8049	−80	72	−11	80	48	1	VG	Do.
			(*)	−74	78	−3	74	12	1		
			8047	−64	88	+14	68	6	1		
			8044	−11	141	−9	11	12	1		
			8044	−2	150	−7	2	24	5		
			8045	+22	174	+18	34	48	16		
			8045	+30	182	+15	37	170	7		
					(152)	(−7)		320	32		
Mar. 15	11	30	8049	−67	71	−11	67	145	1	G	Do.
			8048	−63	75	+15	65	48	4		
			8047	−49	89	+14	53	6	1		
			8044	+12	150	−7	12	12	3		
			8045	+37	175	+18	44	36	16		
			8045	+45	183	+14	50	145	3		
					(138)	(−7)		392	28		
Mar. 16	11	31	8051	−80	45	+7	81	6	1	G	Do.
			8050	−79	46	−17	79	242	3		
			8049	−53	72	−10	53	97	1		
			8048	−50	75	+16	55	48	2		
			8047	−38	87	+13	43	97	8		
			8044	+26	151	−7	26	12	1		
			8045	+52	177	+17	57	48	6		
			8045	+59	184	+14	62	85	3		
					(125)	(−7)		635	25		
Mar. 17	11	9	8051	−67	45	+7	69	24	2	G	Mt. Wilson.
			8050	−65	47	−16	65	291	4		
			8049	−40	72	−11	40	85	1		
			8048	−35	77	+16	42	6	6		
			8047	−25	87	+12	31	170	27		
			8052	−16	96	+15	28	6	1		
			8045	+65	177	+16	68	24	3		
			8045	+73	185	+12	75	12	2		
					(112)	(−7)		618	46		
Mar. 18	11	15	8051	−54	45	+7	56	12	3	F	U. S. Naval.
			8050	−51	48	−16	51	242	3		
			8049	−27	72	−11	27	73	2		
			8047	−11	88	+12	22	436	20		
			8052	−3	96	+14	22	36	5		
					(99)	(−7)		799	33		
Mar. 19	10	44	8054	−41	45	+13	45	24	3	G	Mt. Wilson.
			8050	−37	49	−16	38	242	4		
			8049	−13	73	−11	14	73	1		
			8047	+3	89	+12	19	533	40		
			8052	+11	97	+14	24	12	1		
			8053	+65	151	−9	65	12	1		
					(86)	(−7)		896	50		
Mar. 20	12	15	(*)	−26	46	+6	29	6	1	G	U. S. Naval.
			8054	−25	47	+13	32	18	1		
			8050	−24	48	−15	25	255	6		
			8049	+1	73	−11	4	61	1		
			8047	+13	86	+12	23	473	30		
			8052	+27	99	+14	34	12	1		
					(72)	(−7)		825	40		
Mar. 21	11	58	(*)	−23	36	−19	26	12	5	VG	Do.
			8050	−13	46	−13	14	24	4		
			8054	−11	48	+13	23	12	5		
			8050	−9	50	−15	12	145	6		
			8049	+13	72	−11	13	48	1		
			8047	+21	80	+11	27	12	1		
			8047	+29	88	+12	35	461	30		
			8052	+42	101	+14	30	12	1		
					(59)	(−7)		726	53		

POSITIONS, AREAS, AND COUNTS OF SUN SPOTS FOR MARCH 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		°	°	°	°				
Mar. 22	11 23	8056	−87	319	+9	88	6	1	G	Mt. Wilson.
		8050	−10	36	−19	16	24	8		
		8050	+1	47	−18	11	6	1		
		8050	+4	50	−15	9	194	5		
		8054	+4	50	+13	20	6	2		
		8055	+13	59	+11	22	6	1		
		8049	+28	74	−12	29	48	1		
		8047	+42	88	+10	45	412	27		
		8052	+58	104	+14	61	12	3		
				(46)	(−7)		714	49		
Mar. 23	11 7	8056	−73	320	+9	75	97	1	F	Do.
		8050	+3	36	−18	12	36	3		
		8057	+7	40	+4	13	12	2		
		8050	+19	52	−15	21	194	5		
		8049	+43	76	−12	43	48	1		
		8047	+57	90	+12	60	267	23		
				(33)	(−7)		654	35		
Mar. 24	10 39	8058	−64	316	−8	64	6	1	F	Do.
		8056	−58	322	+8	60	97	1		
		8050	+31	51	−15	32	121	4		
		8049	+54	74	−11	54	12	1		
		8047	+70	90	+11	72	194	11		
				(20)	(−7)		430	18		
Mar. 25	10 53	8058	−54	313	−10	54	48	1	VG	U. S. Naval.
		8056	−44	323	+8	46	121	3		
		8056	−41	326	+9	44	6	1		
		8059	−27	340	+6	30	6	2		
		(*)	−16	351	+15	27	6	1		
		8050	+44	51	−15	44	61	7		
		8049	+68	75	−10	68	24	3		
		8047	+82	89	+11	84	145	4		
				(7)	(−7)		417	22		
Mar. 26	11 26	8058	−41	312	−10	41	48	1	F	Do.
		8056	−30	323	+8	34	121	1		
		8060	−26	327	−7	26	6	2		
		8059	−13	340	+6	18	61	3		
		8050	+57	50	−15	57	48	3		
				(353)	(−7)		284	10		
Mar. 27	10 47	8062	−73	267	+11	75	145	2	VG	Do.
		8058	−27	313	−9	27	24	5		
		8056	−17	323	+8	24	145	2		
		8061	−9	331	+1	12	24	4		
		(*)	−7	333	−21	15	6	2		
		8059	+1	341	+6	13	24	5		
		8050	+72	52	−15	78	12	1		
				(340)	(−7)		380	21		
Mar. 28	13 54	(*)	−65	261	−19	66	12	2	F	Do.
		8062	−60	266	+11	63	97	3		
		(*)	−25	301	−15	26	12	4		
		8056	−3	323	+8	16	97	1		
		8061	+5	331	+1	9	24	5		
		8059	+14	340	+7	21	48	6		
				(326)	(−7)		290	21		
Mar. 29	11 19	8062	−46	268	+11	50	85	2	G	Do.
		8056	+10	324	+8	18	97	5		
		8059	+28	342	+7	32	24	3		
				(314)	(−7)		206	10		
Mar. 30	12 32	8062	−31	269	+10	35	48	2	F	Do.
		(*)	+1	301	−15	9	6	2		
		8056	+23	323	+8	28	97	5		
		8059	+41	341	+7	44	12	2		
				(300)	(−7)		163	11		
Mar. 31	11 19	8062	−18	269	+10	25	24	1	G	Do.
		(*)	+2	289	−1	6	48	8		
		8056	+36	323	+8	40	97	6		
		8059	+54	341	+7	56	12	2		
				(287)	(−7)		181	17		

Mean daily area for 31 days=529.

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

POSITIONS, AREAS, AND COUNTS OF SUN SPOTS FOR APRIL 1941

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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
1941	h m		°	°	°	°				
Apr. 2	11 37	8062	+7	268	+11	11	24	3	G	U. S. Naval.
		(*)	+31	292	−1	32	48	6		
		8056	+63	324	+8	66	24	2		
				(261)	(−6)		96	11		
Apr. 3	11 26	(*)	+44	292	−1	46	12	2	G	Do.
				(248)	(−6)		12	2		
Apr. 5	16 6	8063	−48	171	−7	48	48	4	G	Do.
				(219)	(−6)		48	4		
Apr. 6	10 55	8065	−85	123	−10	85	97	1	F	Mount Wilson.
		8065	−80	128	−8	80	48	1		
		8063	−37	171	−7	37	36	1		
		8064	+22	230	+8	26	6	2		
				(208)	(−6)		187	5		
Apr. 7	11 34	8067	−80	115	−9	80	145	4	VG	U. S. Naval.
		8065	−69	126	−10	69	145	8		
		(*)	−66	129	−20	67	24	2		
		8066	−52	143	−4	53	121	6		
		8063	−23	172	−7	23	48	2		
				(195)	(−6)		483	22		
Apr. 8	13 47	8067	−65	116	−9	65	145	4	G	Do.
		8065	−55	126	−10	55	145	9		
		8066	−38	143	−4	38	145	8		
		8063	−10	171	−9	10	24	8		
		8063	−8	173	−7	8	24	2		
		8068	−1	180	+11	17	24	2		
				(181)	(−6)		507	33		
Apr. 9	11 4	8067	−54	115	−9	54	97	3	G	Do.
		8065	−43	126	−11	43	145	8		
		8066	−24	145	−4	24	97	6		
		8063	+4	173	−7	4	24	1		
		8068	+10	179	+12	20	24	3		
				(169)	(−6)		387	21		
Apr. 10	10 58	(*)	−51	105	−10	51	48	5	VG	Do.
		8067	−40	116	−9	40	97	5		
		8065	−30	126	−11	30	145	20		
		8066	−11	145	−4	12	48	5		
		(*)	+56	212	−3	57	48	4		
				(156)	(−6)		386	39		
Apr. 11	11 32	(*)	−42	100	−10	42	6	4	VG	Do.
		(*)	−37	105	−9	37	48	5		
		(*)	−33	109	−11	33	36	3		
		8067	−27	115	−9	27	97	11		
		8065	−17	125	−11	18	145	22		
		8066	+5	147	−4	5	24	2		
		(*)	+70	212	−2	72	24	3		
				(142)	(−6)		380	50		
Apr. 12	10 53	(*)	−68	61	−5	68	6	1	F	Do.
		(*)	−21	108	−10	21	73	10		
		8067	−14	115	−9	15	73	6		
		8065	−3	126	−11	5	145	14		
		8066	+18	147	−5	18	36	2		
				(129)	(−6)		333	33		
Apr. 13	12 52	(*)	−14	101	+11	23	24	1	P	Do.
		8067	−1	114	−9	4	73	3		
		8065	+11	126	−11	12	48	1		
				(115)	(−6)		145	5		
Apr. 14	11 30	(*)	−20	83	−9	20	24	3	G	Do.
		(*)	−2	101	+12	19	24	3		
		8067	+15	118	−9	16	24	2		
				(103)	(−6)		72	8		