TABLE 2.—*Daily totals and weekly means of solar radiation (direct and diffuse) received on a horizontal surface*—Continued

[Gram-calories per square centimeter]

DEPARTURES FROM WEEKLY NORMALS

Date	Washington	Madison	Lincoln	Chicago	New York	Fresno	Fairbanks	Cambridge	Nashville	Twin Falls	La Jolla	New Orleans	Riverside	Blue Hill	Friday Harbor	Ithaca	Newport	State College
	cal.	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*	*cal.*
	−12	−20	+36	−82	+3	+19	−7	+5	.....	+108	.....	−5	+63	−21	−22	−56	−2	−36
	+43	−90	+10	+15	−5	−1	−28	+7	.....	+11	−4	+48	−7	−14	+12	+39	−19	+66
	−49	−103	−214	−75	−77	−25	−16	−96	.....	−48	−24	−20	+29	−80	+25	−62	−117	−143
	+4	+34	−46	+95	+60	+65	+45	+15	.....	+54	+68	+47	+155	−12	+30	−32	+24	+36
	+23	−112	−29	−83	−12	+75	+9	+1	.....	+174	+6	+269	+173	−2	+54	+8	−51	−33
	+63	−2037	−1701	−910	−217	+931	+21	−476	.....	+2093	+322	+2373	+2891	−903	+693	−721	−1155	−770
ACCUMULATED DEPARTURES ON—																		
	+1820	−2926	−3031	−742	+882	+1687	−854	−490	.....	+2380	.....	+4585	+3822	−1043	+2184	−210	−987	.....

LATE REPORT

FEBRUARY 1942 VAPOR PRESSURES AT MADISON, WIS.

	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.
Feb. 2	0.047	0.040	0.054	0.052
Feb. 12	.098	.044	.093	.070
Feb. 13	.044	.034	.010	.085
Feb. 17	.042	.017	.028	.026
Feb. 20	.026	.025	.054	.054
Mean	.089	.084	.101	.100

POSITIONS, AREAS, AND COUNTS OF SUN SPOTS FOR MARCH 1942

[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
1942	*h m*		°	°	°	°				
Mar. 1	11 43	7381	−25	160	+8	29	48	2	F	Mt. Wilson.
		7380	+1	186	−12	5	24	1		
		7378	+12	197	+9	20	1,745	30		
		7379	+21	206	−10	21	242	8		
		7383	+53	238	+11	55	48	2		
		7382	+62	247	−15	62	145	5		
		7377	+70	255	+6	70	194	10		
				(185)	(−7)		2,446	58		
Mar. 2	10 47	7381	−11	161	+8	19	24	3	VG	Do.
		7380	+15	187	−12	15	12	2		
		7378	+25	197	+9	30	1,309	40		
		7379	+33	205	−11	33	194	29		
		7383	+66	238	+11	68	73	15		
		7382	+77	249	−14	77	145	6		
		7377	+81	253	+7	81	194	11		
				(172)	(−7)		1,951	106		
Mar. 3	11 13	7378	+39	198	+9	42	1,067	9	P	Do.
		7379	+49	208	−10	49	97	2		
				(159)	(−7)		1,164	11		
Mar. 4	10 48	7378	+53	199	+9	55	1,067	15	VG	Do.
		7379	+64	210	−10	64	97	6		
				(146)	(−7)		1,164	21		
Mar. 5	10 43	7381	+28	161	+9	33	24	1	VG	Do.
		7378	+66	199	+8	68	1,018	14		
		7379	+77	210	−10	77	97	2		
				(133)	(−7)		1,139	17		
Mar. 6	10 38	7381	+43	163	+8	46	48	7	G	U. S. Naval.
		7378	+79	199	+8	79	970	4		
				(120)	(−7)		1,018	11		

POSITIONS, AREAS, AND COUNTS OF SUN SPOTS FOR MARCH 1942—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
1942	*h m*		°	°	°	°				
Mar. 7	10 37	7381	+57	164	+8	59	24	1	G	U. S. Naval.
		(*)	+68	175	−3	68	12	2		
				(107)	(−7)		36	3		
Mar. 8	10 45	7381	+71	164	+8	72	12	1	G	Mt. Wilson.
				(93)	(−7)		12	1		
Mar. 9	11 32	.....	.....	No spots	.....	.....	.....	.....	G	U. S. Naval
Mar. 10	11 16	7385	−84	343	−13	84	48	1	F	Do.
				(67)	(−7)		48	1		
Mar. 11	11 6	7386	−72	342	+13	73	48	1	F	Do.
		7385	−69	345	−13	70	48	1		
				(54)	(−7)		96	2		
Mar. 12	10 27	7386	−59	342	+13	62	24	1	F	Do.
				(41)	(−7)		24	1		
Mar. 13	13 11	7386	−45	341	+13	50	24	2	G	Do.
		7387	−25	1	+4	28	97	13		
				(26)	(−7)		121	15		
Mar. 14	15 16	7386	−31	341	+11	37	12	1	F	Do.
		7387	−11	1	+3	17	97	12		
				(12)	(−7)		109	13		
Mar. 16	10 54	7388	−69	279	+8	70	485	1	G	Mt. Wilson.
		7387	+13	1	+3	18	48	9		
		7387	+20	8	+3	23	97	11		
				(348)	(−7)		630	21		
Mar. 17	13 23	7389	−79	254	−12	80	97	1	G	U. S. Naval.
		7390	−69	264	−8	69	12	1		
		7388	−52	281	+10	55	339	1		
		7387	+34	7	+3	37	194	9		
				(333)	(−7)		642	12		
Mar. 18	11 1	7392	−73	248	+11	74	145	2	F	Mt. Wilson.
		7389	−65	256	−13	65	145	3		
		7391	−61	260	+7	64	97	1		
		7388	−39	282	+9	42	388	2		
		7387	+46	7	+2	48	194	10		
				(321)	(−7)		969	18		
Mar. 19	11 28	7395	−64	244	−14	65	48	6	F	U. S. Naval.
		7392	−60	248	+10	62	145	1		
		7391	−50	258	+7	53	48	10		
		7389	−50	258	−12	50	194	12		
		7394	−47	261	−10	47	24	4		
		7393	−36	272	+8	40	12	3		
		7388	−27	281	+9	31	339	1		
		7387	+60	8	+3	61	170	19		
				(308)	(−7)		980	57		

POSITIONS, AREAS, AND COUNTS OF SUN SPOTS FOR MARCH 1942—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
1942	*h m*		°	°	°	°				
Mar. 20	11 53	7395	−50	245	−14	50	121	5	F	U. S. Naval.
		7392	−48	247	+9	51	145	4		
		7391	−38	257	+7	41	97	4		
		7389	−38	257	−11	38	242	19		
		7394	−33	262	−9	33	97	6		
		7393	−22	273	+8	27	12	2		
		7388	−12	283	+10	21	291	2		
		7387	+74	9	+3	75	97	3		
				(295)	(−7)		1,102	45		
Mar. 21	11 50	7397	−82	199	+7	82	582	2	F	Mt. Wilson.
		7395	−36	245	−15	37	121	2		
		7392	−36	245	+10	40	145	6		
		7391	−25	256	+7	30	242	13		
		7389	−24	257	−12	25	242	12		
		7394	−19	262	−9	19	291	10		
		7388	+2	283	+9	16	339	2		
		7396	+38	319	+13	43	48	3		
				(281)	(−7)		2,010	50		
Mar. 22	12 4	7397	−70	198	+9	71	1,018	11	G	U. S. Naval.
		7398	−36	232	−9	36	12	4		
		7395	−26	242	−15	27	48	7		
		7392	−20	248	+9	26	145	9		
		7395	−19	249	−13	21	48	2		
		7391	−11	257	+7	18	145	15		
		7389	−11	257	−12	12	121	11		
		7394	−5	263	−9	5	194	13		
		7388	+14	282	+9	22	339	2		
		7396	+51	319	+13	56	48	4		
				(268)	(−7)		2,118	78		
Mar. 23	12 46	7397	−55	200	+9	58	1,018	14	VG	Do.
		7395	−10	245	−15	12	12	1		
		7392	−8	247	+9	17	145	13		
		7395	−5	250	−13	7	48	6		
		7391	+3	258	+8	17	145	20		
		7389	+3	258	−12	6	121	15		
		7394	+9	264	−9	9	194	21		
		(*)	+20	275	+4	23	24	4		
		7388	+28	283	+8	33	291	6		
				(255)	(−7)		1,998	100		
Mar. 24	11 36	7399	−77	165	+17	79	194	8	G	Do.
		7397	−42	200	+9	46	921	12		
		(*)	+2	244	−5	2	24	2		
		7392	+5	247	+10	18	194	13		
		7395	+8	250	−13	10	48	3		
		7389	+15	257	−12	15	145	10		
		7391	+17	259	+8	23	73	10		
		7394	+23	265	−10	24	194	20		
		7388	+41	283	+8	44	291	5		
				(242)	(−7)		2,084	83		
Mar. 25	11 40	7399	−65	164	+16	68	24	2	F	U. S. Naval.
		7400	−34	195	+14	40	12	1		
		7397	−29	200	+9	33	776	17		
		7392	+18	247	+10	25	194	7		
		7395	+22	251	−13	22	48	1		
		7389	+29	258	−12	29	97	6		
		7391	+30	259	+7	33	48	6		
		7394	+35	264	−10	35	145	13		
		7388	+54	283	+8	56	242	3		
				(229)	(−7)		1,586	56		
Mar. 26	10 43	7400	−20	196	+13	29	24	1	P	Do.
		7397	−15	201	+8	22	582	9		
		7401	+24	240	−6	25	24	2		
		7392	+31	247	+10	36	194	4		
		7395	+36	252	−13	36	48	1		
		7389	+43	259	−14	43	24	2		
		7394	+48	264	−11	48	97	5		
		7388	+68	284	+8	70	242	1		
				(216)	(−7)		1,235	25		
Mar. 27	11 0	7400	−7	196	+12	21	24	4	VG	Mt. Wilson.
		7397	−3	200	+8	17	582	18		
		(*)	+2	205	−15	8	12	2		

POSITIONS, AREAS, AND COUNTS OF SUN SPOTS FOR MARCH 1942—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
1942	*h m*		°	°	°	°				
Mar. 27		7392	+43	246	+9	47	48	2		
		7392	+48	251	+9	50	97	5		
		7402	+51	254	−8	51	12	2		
		7395	+53	257	−13	53	24	2		
		7389	+61	264	−12	61	24	2		
		7394	+64	267	−10	64	12	2		
		7388	+80	283	+8	80	242	1		
				(203)	(−7)		1,077	40		
Mar. 28	10 41	7400	+6	196	+12	20	24	4	F	Mt. Wilson.
		7397	+11	201	+8	20	485	20		
		7392	+61	251	+10	63	97	6		
				(190)	(−7)		606	30		
Mar. 29	10 5	7403	−75	102	+10	76	145	1	VG	Do.
		7397	+25	202	+8	30	582	37		
		7392	+73	250	+10	74	97	5		
				(177)	(−7)		824	43		
Mar. 30	11 22	7403	−70	93	+15	72	48	2	G	U. S. Naval.
		7403	−61	102	+11	63	97	1		
		7404	−2	161	−2	6	48	3		
		7397	+36	199	+9	40	485	13		
		7397	+45	208	+9	46	194	18		
				(163)	(−7)		872	37		
Mar. 31	10 56	7403	−56	94	+14	60	24	3	VG	Do.
		7403	−48	102	+11	50	121	8		
		7404	+11	161	−2	12	97	5		
		7397	+49	199	+9	51	436	8		
		7397	+57	207	+9	60	97	8		
				(150)	(−7)		775	32		

Mean daily area for 30 days=961.

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

PROVISIONAL RELATIVE SUNSPOT NUMBERS FOR MARCH 1942

[Based on observations at Zurich, or Locarno (bold-face type) as indicated. Data furnished through the courtesy of Prof. W. Brunner, Eidgenössiches Sternwarte, Zurich, Switzerland]

March, 1942	Relative numbers	March 1942	Relative numbers	March 1942	Relative numbers
1	127	11	**15**	21	*ad* 83
2	116	12	**16**	22	102
3	57	13	*Ec* 17	23	*aa* 117
4	32	14	26	24	**106**
5	--------	15	*ad* 26	25	100
6	20	16	29	26	115
7	7	17	*d* 38	27	*b* 79
8	0	18	53	28	48
9	0	19	*Ec* 65	29	*d* 37
10	0?	20	72	30	61
				31	56

Mean, 30 days=54.0

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.