

Solar activity was at moderate levels on 11 and 14 March with two M1.1 flares observed. The first M1.1 flare was observed at 11/1304 UTC from Region 4024 (N05, L=289, class/area Cro/020 on 11 Mar). The second M1.1 flare was observed at 14/2221 UTC from Region 4030 (S16, L=123, class/area Eso/090 on 15 Mar). No significant radio or CMEs were associated with these events. The remainder of the highlight period was at low levels.

At about 16/0900 UTC, dimming and a possible DSF was observed near Region 4023 (N25, L=177, class/area Hsx/030 on 11 Mar). A likely faint, slow CME was observed in LASCO C2 imagery with a weak Earth-directed component expected to arrive midday on 20 Mar.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at high levels on 10-16 March with a peak flux of 5,060 pfu observed at 16/1445 UTC.

Geomagnetic field activity was at quiet to unsettled levels on 10-11 March. Activity levels increased to active to minor storm (G1-Minor) levels on 12-13 March and an isolated moderate storm (G2-Moderate) level early on 14 March. Unsettled to active levels were observed for the remainder of 14 March through 15 March with mostly quiet to unsettled levels on 16 March. The enhanced activity levels on 12-16 March were due to a negative polarity CH HSS. During the active period, solar wind speeds peaked at 500-550 km/s, Bt reached 12 nT and Bz reached -10 nT levels.

Space Weather Outlook **17 March - 12 April 2025**

Solar activity is expected to be at a chance for R1-R2 (Minor-Moderate) levels through the outlook period.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at high levels on 17, 29-31 March and 06-12 April due to recurrent CH HSS influences. Normal to moderate levels are expected for the rest of the outlook period.

Geomagnetic field activity is expected to be at unsettled to active levels on 17-21 March due to a combination of negative polarity CH HSS effects and weak CME effects. Active to minor storm (G1-Minor) levels are expected on 25-28 March due to recurrent positive polarity CH HSS effects. Active to minor to major storm (G1-G2/Minor-Moderate) levels are expected on 04-12 April due to recurrent negative polarity CH HSS effects. Quiet to unsettled levels are expected for the remainder of the period (subject to change with any CME activity).



Daily Solar Data

Date	Radio Flux 10.7cm	Sun spot No.	Sunspot Area (10 ⁻⁶ hemi.)	X-ray Background Flux	Flares							
					X-ray			Optical				
					C	M	X	S	1	2	3	4
10 March	149	74	500	B8.0	5	0	0	0	0	0	0	0
11 March	161	128	610	C1.0	4	1	0	5	0	0	0	0
12 March	160	160	640	C1.2	21	0	0	3	0	0	0	0
13 March	175	160	690	C1.1	12	0	0	1	1	0	0	0
14 March	180	147	520	C1.2	9	1	0	0	0	0	0	0
15 March	178	185	870	C1.1	8	0	0	1	0	0	0	0
16 March	186	190	750	C1.1	9	0	0	8	0	0	0	0

Daily Particle Data

Date	Proton Fluence (protons/cm ² -day -sr)		Electron Fluence (electrons/cm ² -day -sr)	
	>1 MeV	>10 MeV	>2MeV	
10 March	2.6e+05	1.8e+04	8.0e+07	
11 March	1.2e+05	2.1e+04	1.6e+08	
12 March	9.0e+05	1.8e+04	5.3e+07	
13 March	1.3e+06	1.8e+04	3.6e+07	
14 March	8.9e+05	1.7e+04	9.9e+07	
15 March	2.9e+05	1.7e+04	1.4e+08	
16 March	6.6e+05	1.7e+04	1.9e+08	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
10 March	8	3-1-2-2-3-2-1-2	18	3-2-4-5-4-3-1-1	10	3-2-2-3-2-3-1-2
11 March	9	2-2-2-3-3-2-2-2	13	1-2-3-4-4-3-1-1	10	2-2-2-3-3-2-2-3
12 March	18	3-3-3-3-4-3-3-4	51	3-4-4-6-6-6-6-3	32	4-4-3-4-4-5-5-5
13 March	26	4-4-4-4-4-3-4-4	44	4-4-6-5-6-4-5-3	42	5-5-5-5-5-4-5-4
14 March	22	5-1-0-0-0-4-3-3	29	5-4-4-4-4-5-3-3	25	6-3-4-3-3-4-3-4
15 March	14	3-3-3-3-4-3-2-1	29	3-2-5-6-4-5-1-1	18	4-4-3-4-4-3-2-1
16 March	10	1-2-2-3-3-3-2-2	21	2-2-3-5-6-2-1-1	7	2-2-3-3-3-1-2-3



Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
10 Mar 1207	ALERT: Electron 2MeV Integral Flux \geq 1000pfu	10/1150
11 Mar 0922	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	10/1150
12 Mar 0007	WARNING: Geomagnetic K = 4	12/0006 - 0600
12 Mar 0237	ALERT: Geomagnetic K = 4	
12 Mar 0701	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	10/1150
12 Mar 0735	WARNING: Geomagnetic K = 4	12/0735 - 2100
12 Mar 0747	ALERT: Type II Radio Emission	12/0503
12 Mar 1050	WARNING: Geomagnetic K = 5	12/1050 - 1800
12 Mar 1116	ALERT: Geomagnetic K = 4	
12 Mar 1749	ALERT: Geomagnetic K = 5	
12 Mar 1751	EXTENDED WARNING: Geomagnetic K = 5	12/1050 - 13/0000
12 Mar 1752	EXTENDED WARNING: Geomagnetic K = 4	12/0735 - 13/0600
12 Mar 2055	ALERT: Geomagnetic K = 5	
12 Mar 2302	EXTENDED WARNING: Geomagnetic K = 5	12/1050 - 13/0600
12 Mar 2353	ALERT: Geomagnetic K = 5	
13 Mar 0132	ALERT: Geomagnetic K = 5	
13 Mar 0435	ALERT: Geomagnetic K = 5	
13 Mar 0555	EXTENDED WARNING: Geomagnetic K = 4	12/0735 - 13/1500
13 Mar 0555	EXTENDED WARNING: Geomagnetic K = 5	12/1050 - 13/1500
13 Mar 0840	ALERT: Geomagnetic K = 5	
13 Mar 1201	ALERT: Geomagnetic K = 5	
13 Mar 1248	ALERT: Geomagnetic K = 5	
13 Mar 1324	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	10/1150
13 Mar 1418	EXTENDED WARNING: Geomagnetic K = 5	12/1050 - 13/1800
13 Mar 1418	EXTENDED WARNING: Geomagnetic K = 4	12/0735 - 13/2100
13 Mar 1900	EXTENDED WARNING: Geomagnetic K = 4	12/0735 - 14/0300
13 Mar 1934	WARNING: Geomagnetic K = 5	13/1930 - 14/0300

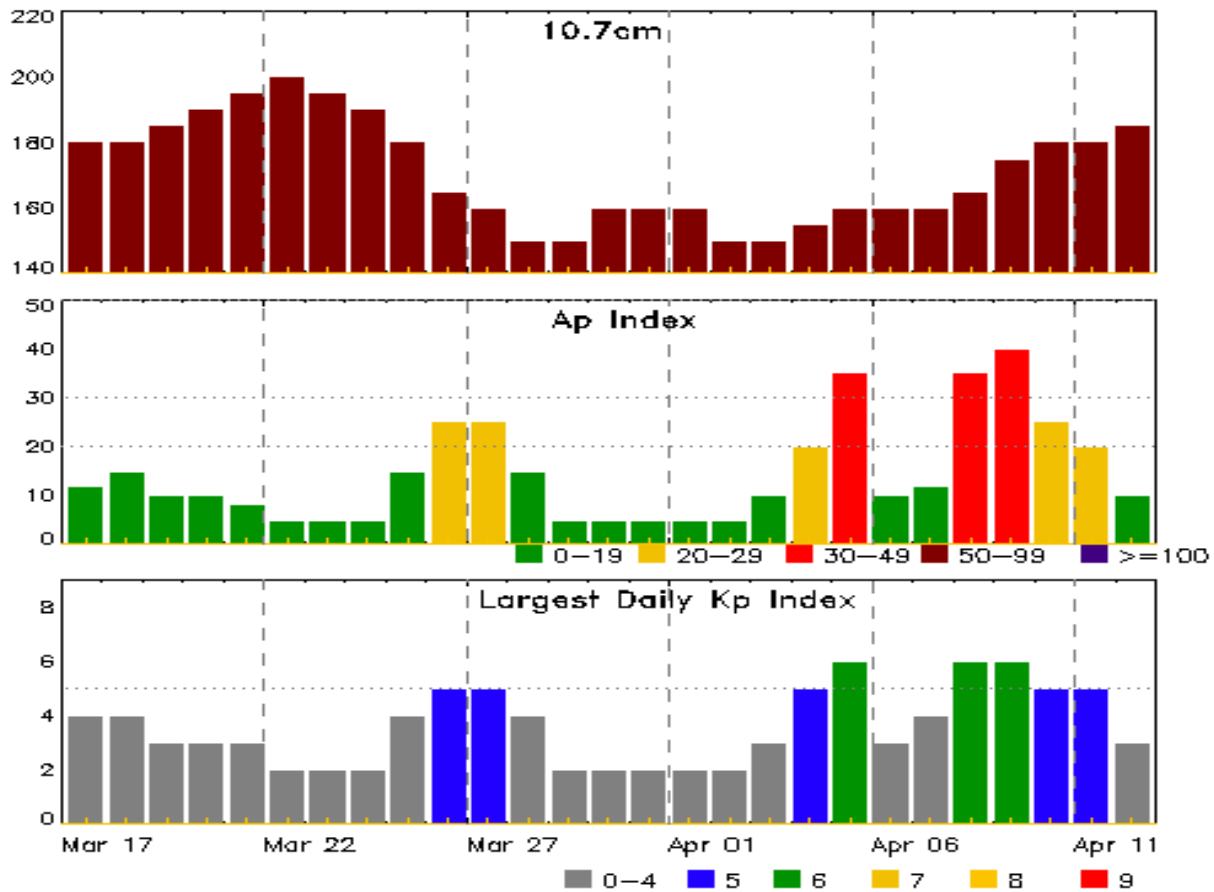


Alerts and Warnings Issued

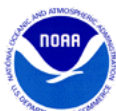
Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
13 Mar 1950	ALERT: Geomagnetic K = 5	
14 Mar 0125	ALERT: Geomagnetic K = 5	
14 Mar 0127	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	10/1150
14 Mar 0129	EXTENDED WARNING: Geomagnetic K = 4	12/0735 - 14/1800
14 Mar 0130	EXTENDED WARNING: Geomagnetic K = 5	13/1930 - 14/1500
14 Mar 0140	WARNING: Geomagnetic K = 6	14/0140 - 1200
14 Mar 0141	ALERT: Geomagnetic K = 6	
14 Mar 1045	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	10/1150
14 Mar 1734	EXTENDED WARNING: Geomagnetic K = 4	12/0735 - 15/0600
15 Mar 0142	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	10/1150
15 Mar 0155	EXTENDED WARNING: Geomagnetic K = 4	12/0735 - 15/2359
15 Mar 0500	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	10/1150
16 Mar 0737	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	10/1150
16 Mar 1448	WARNING: Geomagnetic K = 4	16/1447 - 17/0300



Twenty-seven Day Outlook



Date	Radio Flux 10.7cm	Planetary A Index	Largest Kp Index	Date	Radio Flux 10.7cm	Planetary A Index	Largest Kp Index
17 Mar	180	12	4	31 Mar	160	5	2
18	180	15	4	01 Apr	160	5	2
19	185	10	3	02	150	5	2
20	190	10	3	03	150	10	3
21	195	8	3	04	155	20	5
22	200	5	2	05	160	35	6
23	195	5	2	06	160	10	3
24	190	5	2	07	160	12	4
25	180	15	4	08	165	35	6
26	165	25	5	09	175	40	6
27	160	25	5	10	180	25	5
28	150	15	4	11	180	20	5
29	150	5	2	12	185	10	3
30	160	5	2				



Energetic Events

Date	Time			X-ray		Optical Information			Peak		Sweep Freq	
	Begin	Max	Half Max	Class	Integ Flux	Imp/ Brtns	Location Lat CMD	Rgn #	Radio Flux		Intensity	
									245	2695	II	IV
11 Mar	1303	1304		1306	M1.1	0.002			4024	5700		
14 Mar	2218	2221		2232	M1.1	0.007			4030			

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical Location		Rgn #
	Begin	Max	End			Lat	CMD	
10 Mar	0246	0307	0313	C1.3				
10 Mar	0634	0656	0727	C1.4				4012
10 Mar	0727	0736	0747	C1.3				4012
10 Mar	1041	1101	1127	C1.3				4019
10 Mar	1947	2032	2110	C2.1				4019
11 Mar	1303	1304	1306	M1.1				4024
11 Mar	1641	1642	1643		SF	S06E60		4021
11 Mar	1820	1830	1835	C5.8				4024
11 Mar	1820	1830	1835		SF	N06W50		4024
11 Mar	1824	1826	1838		SF	N06W50		4024
11 Mar	1829	1829	1832		SF	S07E59		4021
11 Mar	1907	1916	1927	C7.2				
11 Mar	2028	2039	2053	C2.3				4024
11 Mar	2111	2122	2134	C9.6	SN	N06W52		4024
11 Mar	2155	2156	2200		SF	S06E57		4021
12 Mar	0221	0231	0300	C8.8				4028
12 Mar	0254	0302	0314	C3.8				4028
12 Mar	0330	0344	0400	C3.7				4028
12 Mar	0729	0737	0747	C3.3				4024
12 Mar	0939	0947	0953	C5.7				4028
12 Mar	1102	1110	1126	C2.0				4028
12 Mar	1148	1159	1209	C2.1				4028
12 Mar	1209	1217	1221	C6.0				4028
12 Mar	1221	1224	1232	C5.8				4028
12 Mar	1232	1235	1253	C4.1				4028
12 Mar	1447	1458	1520	C2.9				4028
12 Mar	1529	1535	1551	C1.9				4028
12 Mar	1652	1704	1717	C1.6				4012
12 Mar	1733	1736	1743	C1.6				4028



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
12 Mar	1833	1839	1851	C3.0	SF	S17E89	4028
12 Mar	1930	1933	1941	C2.4			4028
12 Mar	1941	1945	1954	C1.9			4027
12 Mar	2006	2012	2022	C2.8			4012
12 Mar	2026	2035	2042	C2.5			4028
12 Mar	2130	2136	2152	C3.4			4028
12 Mar	2141	2141	2145		SF	S17E87	
12 Mar	2316	2327	2343	C2.7	SF	S17E87	4028
13 Mar	0120	0128	0138	C1.6			4027
13 Mar	0159	0205	0221	C1.9			4018
13 Mar	0241	0252	0300	C1.7			4019
13 Mar	0408	0416	0426	C1.7			4019
13 Mar	0428	0435	0444	C1.8			4028
13 Mar	0740	0752	0759	C6.8			4012
13 Mar	0805	0814	0818	C3.9			4018
13 Mar	1234	1259	1307	C1.5			4019
13 Mar	1445	1447	1454		SF	N05W03	4019
13 Mar	1713	1742	1806	C4.3			
13 Mar	1810	1813	1818	C3.7			
13 Mar	1915	1935	1953	C7.9	1F	N04W06	4019
13 Mar	2159	2221	2224	C2.5			4021
14 Mar	0015	0022	0029	C2.2			4028
14 Mar	0059	0122	0128	C1.9			4024
14 Mar	0142	0159	0210	C2.3			4012
14 Mar	0710	0720	0750	C3.4			4012
14 Mar	1046	1130	1148	C3.7			4028
14 Mar	1220	1237	1310	C2.4			4028
14 Mar	1312	1317	1336	C1.9			4025
14 Mar	1418	1426	1442	C4.4			4022
14 Mar	1538	1546	1603	C2.1			4025
14 Mar	2218	2221	2232	M1.1			4030
15 Mar	0530	0643	0809	C3.9			
15 Mar	1127	1132	1138	C2.1	SF	S16E51	4028
15 Mar	1257	1311	1329	C2.6			4028
15 Mar	1501	1522	1527	C2.4			4028
15 Mar	1527	1530	1542	C2.4			4028
15 Mar	1638	1652	1704	C1.8			4030
15 Mar	1726	1741	1750	C4.1			4019



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
15 Mar	2347	2359	0014	C2.1			4030
16 Mar	0151	0204	0209	C2.1			4019
16 Mar	0739	0803	0813	C4.2	SF	N04W40	4019
16 Mar	0817	0821	0829	C2.4			4019
16 Mar	B0956	U1010	1018		SF	S06E04	4021
16 Mar	1125	1134	1141	C1.9	SF	N04W42	4019
16 Mar	1248	1301	1313	C2.1	SF	S18E38	4028
16 Mar	1453	1515	1549	C1.4			4021
16 Mar	1936	1936	1938		SF	N04W17	4022
16 Mar	2014	2015	2021		SF	N04W47	4019
16 Mar	2046	2111	2120	C2.5	SF	S14E24	4029
16 Mar	2227	2232	2242	C6.5	SF	S17E35	4028
16 Mar	2324	2331	2339	C1.8			4030



Region Summary

Date	Location	Sunspot Characteristics						Flares							
	Lat CMD	Helio	Area 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical				
		Lon						C	M	X	S	1	2	3	4
Region 4011															
02 Mar	S19E44	309	20	3	Cao	4	B	5				1			
03 Mar	S19E29	311	20	5	Bxo	4	B								
04 Mar	S19E18	309	10	4	Bxo	2	B								
05 Mar	S19E04	310	10	1	Axx	1	A								
06 Mar	S16W06	307	10	3	Bxo	3	B								
07 Mar	S14W21	309	10	3	Bxo	5	B								
08 Mar	S14W35	309	10	3	Bxo	5	B	1				1			
09 Mar	S14W49	310	plage												
10 Mar	S14W63	311	plage												
11 Mar	S14W77	312	plage												
								6	0	0	2	0	0	0	0

Died on Disk.

Absolute heliographic longitude: 310

Region 4012

02 Mar	S13E61	292	100	5	Dao	7	B								
03 Mar	S13E47	293	200	10	Dai	9	BG	2			3				
04 Mar	S13E33	294	250	11	Ekc	16	BG	7			2				
05 Mar	S12E19	295	300	12	Eki	21	BG	1							
06 Mar	S13E05	296	310	13	Eki	24	BG	1							
07 Mar	S13W10	297	260	15	Eki	20	BG	1							
08 Mar	S14W22	296	220	15	Eai	27	BG	4							
09 Mar	S14W38	299	220	17	Fao	18	BG	2							
10 Mar	S14W56	304	150	8	Dao	10	BG	2							
11 Mar	S14W70	305	130	8	Cai	16	B								
12 Mar	S14W84	306	80	4	Cai	8	B	2							
								22	0	0	5	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 296



Region Summary - continued

Date	Location		Sunspot Characteristics					Flares							
	Lat CMD	Helio Lon	Area 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical				
								C	M	X	S	1	2	3	4

Region 4013

02 Mar	S04E60	293	10	1	Axx	1	A								
03 Mar	S04E45	295	plage												
04 Mar	S04E30	297	plage												
05 Mar	S04E16	298	plage												
06 Mar	S04E01	300	plage												
07 Mar	S04W14	302	plage												
08 Mar	S04W29	303	plage												
09 Mar	S04W44	305	plage												
10 Mar	S04W59	307	plage												
11 Mar	S04W74	309	plage												
12 Mar	S04W89	311	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 300

Region 4016

04 Mar	S25E48	278	0	4	Bxo	4	B								
05 Mar	S26E35	297	40	4	Cao	4	BG	1	1		1				
06 Mar	S26E21	280	40	2	Cai	5	BG	1							
07 Mar	S26E09	279	40	2	Cai	8	BG		1		1				
08 Mar	S25W04	278	30	2	Cao	4	B								
09 Mar	S25W18	279	10	2	Bxo	2	B								
10 Mar	S25W32	280	plage												
11 Mar	S25W46	281	plage												
12 Mar	S25W60	282	plage												
13 Mar	S25W74	283	plage												
14 Mar	S25W89	284	plage												
								2	2	0	2	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 278



Region Summary - continued

Date	Location		Sunspot Characteristics					Flares							
	Lat CMD	Helio Lon	Area 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical				
								C	M	X	S	1	2	3	4

Region 4017

05 Mar	S05E58	256	10	1	Axx	1	A								
06 Mar	S05E46	255	10	1	Axx	1	A								
07 Mar	S05E32	256	10	1	Axx	1	A								
08 Mar	S05E17	257	plage												
09 Mar	S05E02	259	plage												
10 Mar	S05W13	261	plage												
11 Mar	S05W28	263	plage												
12 Mar	S05W43	265	plage												
13 Mar	S05W58	267	plage												
14 Mar	S05W73	268	plage												
15 Mar	S05W87	269	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 259

Region 4018

05 Mar	S20E75	239	120	1	Hsx	1	A								
06 Mar	S20E64	237	120	4	Cao	3	B								
07 Mar	S21E52	236	120	6	Cao	3	B	1							
08 Mar	S20E39	235	120	3	Cso	3	B								
09 Mar	S20E25	236	100	2	Hsx	1	A								
10 Mar	S20E14	234	100	2	Cso	3	B								
11 Mar	S20E01	234	100	4	Cso	6	B								
12 Mar	S21W09	231	110	9	Cso	9	B								
13 Mar	S21W24	232	100	3	Hsx	3	A	2							
14 Mar	S20W38	233	60	2	Hsx	1	A								
15 Mar	S19W52	234	90	2	Hsx	1	A								
16 Mar	S20W66	235	70	2	Hsx	1	A								
								3	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 234



Region Summary - continued

Date	Location	Sunspot Characteristics						Flares								
	Lat CMD	Helio	Area 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical					
		Lon						C	M	X	S	1	2	3	4	
Region 4019																
07 Mar	N07E70	218	30	2	Hsx	1	A									
08 Mar	N07E58	216	70	3	Hsx	1	A									
09 Mar	N07E43	218	70	3	Hsx	1	A									
10 Mar	N07E31	217	150	9	Dai	8	BGD	2								
11 Mar	N07E18	217	180	9	Dac	9	BD									
12 Mar	N06E04	218	210	8	Dac	15	BD									
13 Mar	N06W09	217	200	7	Dac	16	BD	4				1	1			
14 Mar	N05W23	218	100	6	Dac	16	BD									
15 Mar	N06W37	219	100	5	Dai	19	BGD	1								
16 Mar	N05W51	220	120	3	Dai	6	B	4				3				
								11	0	0		4	1	0	0	0

Still on Disk.

Absolute heliographic longitude: 218

Region 4020

09 Mar	N18E53	208	50	3	Hsx	1	A								
10 Mar	N18E50	198	50	3	Hsx	1	A								
11 Mar	N19E36	199	50	3	Hsx	1	A								
12 Mar	N19E23	199	50	2	Hsx	1	A								
13 Mar	N19E11	197	50	2	Hsx	1	A								
14 Mar	N19W03	198	40	1	Hsx	1	A								
15 Mar	N20W15	197	70	1	Hsx	1	A								
16 Mar	N19W28	197	30	2	Hax	1	A								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 198

Region 4021

10 Mar	S06E71	176	50	4	Cso	2	B								
11 Mar	S06E57	178	80	5	Cao	6	B				3				
12 Mar	S06E42	180	100	5	Cai	7	BD								
13 Mar	S06E29	179	100	5	Cai	7	BD	1							
14 Mar	S05E15	180	80	2	Hsx	4	A								
15 Mar	S05E03	179	90	3	Cso	3	B								
16 Mar	S05W11	180	110	4	Dso	7	B	1			1				
								2	0	0	4	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 179



Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
Region 4022															
11 Mar	N08E47	188	20	3	Cro	4	B								
12 Mar	N08E33	189	30	6	Dro	6	B								
13 Mar	N08E19	189	30	6	Dro	6	B								
14 Mar	N08E05	190	20	8	Dai	9	B	1							
15 Mar	N06W09	191	70	7	Dai	9	B								
16 Mar	N05W23	192	70	6	Dao	9	B				1				
								1	0	0	1	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 190

Region 4023															
11 Mar	N25E58	177	30	2	Hsx	1	A								
12 Mar	N25E45	177	30	2	Hsx	1	A								
13 Mar	N25E32	176	30	2	Hsx	1	A								
14 Mar	N25E18	177	30	2	Hsx	1	A								
15 Mar	N21E04	178	30	2	Hrx	1	A								
16 Mar	N25W07	176	20	1	Hrx	1	A								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 178

Region 4024															
11 Mar	N05W54	289	20	4	Cro	5	B	3	1		2				
12 Mar	N05W69	291	plage					1							
13 Mar	N05W83	291	10	1	Axx	1	A								
								4	1	0	2	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 289

Region 4025															
12 Mar	N10E44	178	10	5	Bxi	7	B								
13 Mar	N10E28	180	30	5	Dro	7	B								
14 Mar	N11E14	181	60	5	Cao	7	B	2							
15 Mar	N12E02	180	50	7	Cao	6	B								
16 Mar	N11W12	181	50	6	Dso	10	BG								
								2	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 180



Region Summary - continued

Location		Sunspot Characteristics					Flares							
Date	Lat CMD	Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical			
	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4

Region 4026

12 Mar	S20E50	172	10	3	Bxo	3	B								
13 Mar	S20E37	171	10	4	Bxo	3	B								
14 Mar	S19E23	172	10	2	Axx	1	A								
15 Mar	S19E09	173	plage												
16 Mar	S19W05	174	plage												
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 174

Region 4027

12 Mar	N11W21	243	10	4	Bxo	3	B	1							
13 Mar	N11W36	244	10	1	Axx	1	A	1							
14 Mar	N11W50	245	10	1	Axx	1	A								
15 Mar	N11W64	246	plage												
16 Mar	N11W78	247	plage												
								2	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 243

Region 4028

13 Mar	S17E65	143	120	3	Dai	4	B	1							
14 Mar	S18E57	138	110	9	Dao	6	BG	3							
15 Mar	S17E41	141	240	6	Dai	3	BG	4			1				
16 Mar	S18E27	142	110	7	Dsi	12	BG	2			2				
								27	0	0	3	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 142

Region 4029

15 Mar	S14E34	148	10	1	Axx	1	A								
16 Mar	S15E20	149	plage					1			1				
								1	0	0	1	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 149



Region Summary - continued

Date	Location		Sunspot Characteristics					Flares							
	Lat CMD	Helio Lon	Area 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical				
								C	M	X	S	1	2	3	4

Region 4030

14 Mar	S16E65	130	plage							1					
15 Mar	S16E59	123	90	12	Eso	5	BG	2							
16 Mar	S17E38	131	80	2	Hsx	1	A	1							
								3	1	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 131

Region 4031

15 Mar	N17E18	164	10	3	Bxo	2	B								
16 Mar	N17E04	165	60	5	Dai	6	B								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 165

Region 4032

15 Mar	N27E36	146	10	1	Axx	1	A								
16 Mar	N28E22	147	10	1	Axx	1	A								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 147

Region 4033

15 Mar	N24E60	122	10	3	Bxo	3	B								
16 Mar	N25E47	122	10	1	Axx	2	A								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 122

Region 4034

16 Mar	S16E51	118	10	5	Bxo	3	B								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 118



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Notice: The 27-day Outlook, Satellite Environment, X-ray and Proton plots have been redesigned. Comments and suggestions are welcome SWPC.Webmaster@noaa.gov

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