

Solar activity ranged from low to moderate levels. An M5.6 flare on Tuesday at 0734 UTC from Region 4046 (N10, L=298, class/area=Cho/0250 on 01 April) was the largest of the week. It was accompanied by a 195 sfu Tenflare and some unremarkable discrete frequency bursts. No Earth-directed CME was associated with this event, and in fact, all CME detections throughout the week were judged to miss Earth. The only other M-flare for the remainder of the week occurred later that same day at 2231 UTC, an M2.5 from Region 4048 (S16, L=278, class/area=EKC/0450), the largest active region on the disk throughout the week. The only other M-flare to occur earlier in the week, an M1.2 event, happened on 31 March at 1024. This was also from Region 4048, and was associated with an enhancement in proton flux described in the next paragraph.

Solar particle events more than made up for the lackluster flare performance. Proton flux had been rising, most likely in response to an X1.1 flare that had occurred late last week (see PRF 2578). The 10 MeV protons crossed the 10 pfu threshold briefly on 31 Mar at 1105 UTC before falling below at 1115 UTC. This bump was possibly related to the M1.2 event described earlier. There was only a brief respite, however, because the flux again crossed the 10 pfu threshold at 1430 UTC, peaked on 01 Apr at 0425 UTC (147 pfu), and ended on 02 Apr at 0910 UTC. Proton flux was above the 100 pfu threshold on 01 April, from 0205 UTC to 0910 UTC. Note: In the 10 MeV proton event summary, the start time was recorded as 31/1105 UTC despite the subsequent 3 hours below the 10 pfu threshold.

The greater than 2 MeV electron flux at geosynchronous orbit was high on 31 Mar-01 April before falling to moderate levels on 2-4 April. A fast solar wind stream became geoeffective on 04 April and drove flux back to high levels on 05-07 April.

Geomagnetic field activity was at quiet to active levels to begin the week, with an isolated minor storm period on 03 Apr attributed to a solar sector boundary crossing. By 04 Apr, conditions had increased to minor storm levels with the arrival of a negative polarity coronal hole and fast wind stream. Activity peaked at moderate storm levels (Kp=6m) during the first synoptic period of 05 April. Conditions remained at disturbed, ranging from unsettled to minor storm levels, through the first period of 06 April. Once the fast stream became established, conditions decreased to active to unsettled levels which persisted through the end of the week.

Space Weather Outlook

07 April - 03 May 2025

Solar activity is expected to be low for the first nine days of the forecast period; 11 regions are wil exit the visible disk, with only 4 regions expected to return during the same period. The declining trend in solar flux and activity is expected to bottom out around 15 April, after which a slowly increasing period is expected. The anticipated return on 22 April of the active longitudes that gave rise to Region 4046 (responsible for X-flare activity) should bring solar activity to



moderate and occasionally high levels through the end of the forecast period.

No proton events are expected at geosynchronous orbit until the expected increase in flare activity beginning on 22 April. Then there will be an increasing chance for an isolated proton event as the more potent regions approach the west limb by the end of the forecast period.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to begin the forecast period at high levels in response to the fast solar wind stream. Flux will subside to moderate levels after 12 April as effects from the fast stream wane. 19 April is expected to bring a return to high levels, again in response to another recurrent fast stream. The elevated conditions are expected to remain through 28 April before returning to moderate levels.

Geomagnetic field activity is expected to be primarily quiet to unsettled, with an isolated active period, until the return of a recurrent geoeffective coronal hole between 19-21 April. Active conditions are expected to prevail through 24 April before the fast solar wind stream wanes. Another recurrent hole is expected to arrive around 01 May, bringing minor storm conditions with the threat of an isolated moderate storm period.



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
31 March	172	151	950	C1.4	20	1	0	9	0	0	0	0
01 April	182	147	950	C1.4	12	2	0	10	0	0	0	0
02 April	180	158	1030	C1.1	12	0	0	3	1	0	0	0
03 April	178	124	930	C1.2	5	0	0	3	0	0	0	0
04 April	180	163	1010	C1.3	5	0	0	3	0	0	0	0
05 April	184	160	1010	C1.6	9	1	0	2	0	0	0	0
06 April	167	140	1070	C1.3	4	0	0	5	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	
31 March	8.1e+06	1.5e+06	1.1e+08	
01 April	1.0e+08	6.0e+06	1.3e+08	
02 April	6.4e+07	7.4e+05	9.0e+06	
03 April	2.8e+07	1.4e+05	6.3e+06	
04 April	1.1e+07	4.1e+04	6.0e+06	
05 April	3.4e+06	1.8e+04	4.7e+07	
06 April	1.6e+06	2.5e+04	2.7e+08	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
31 March	8	1-1-2-3-3-2-2-1	6	0-1-2-4-2-1-1-0	6	1-2-2-3-2-1-1-1
01 April	5	1-1-1-1-2-2-2-2	2	0-0-0-0-1-1-2-1	5	1-1-1-1-2-1-2-2
02 April	16	4-3-3-4-3-2-2-3	29	3-5-5-5-4-3-3-3	22	4-4-4-4-3-2-3-4
03 April	25	3-3-4-4-5-3-4-4	46	4-2-6-5-6-5-5-4	26	4-3-4-4-4-3-5-5
04 April	19	3-3-3-3-5-3-3-3	44	3-4-5-5-6-6-4-4	33	4-4-4-4-5-4-4-5
05 April	20	4-4-4-3-3-3-3-3	47	4-4-6-6-5-5-5-3	40	6-5-4-4-4-4-5-4
06 April	17	4-3-2-3-4-3-3-3	36	4-3-4-6-5-5-4-3	48	5-3-2-3-3-3-3-3



Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
31 Mar 0502	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	28/1410
31 Mar 1058	WARNING: Proton 10MeV Integral Flux $>$ 10pfu	31/1057 - 2359
31 Mar 1121	ALERT: Proton Event 10MeV Integral Flux \geq 10pfu	31/1105
31 Mar 2354	EXTENDED WARNING: Proton 10MeV Integral Flux $>$ 10pfu	31/1057 - 01/2359
01 Apr 0222	ALERT: Proton Event 10MeV Integral Flux \geq 100pfu	01/0205
01 Apr 0651	ALERT: X-ray Flux exceeded M5	01/0645
01 Apr 0704	SUMMARY: X-ray Event exceeded M5	01/0637 - 0653
01 Apr 0714	SUMMARY: 10cm Radio Burst	01/0645 - 0645
01 Apr 1012	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	28/1410
01 Apr 1815	SUMMARY: Proton Event 10MeV Integral Flux \geq 100pfu	01/0205 - 0910
01 Apr 2337	EXTENDED WARNING: Proton 10MeV Integral Flux $>$ 10pfu	31/1057 - 02/1200
02 Apr 0023	WATCH: Geomagnetic Storm Category G1 predicted	
02 Apr 0123	WARNING: Geomagnetic K = 4	02/0123 - 0600
02 Apr 0133	ALERT: Geomagnetic K = 4	
02 Apr 0234	WARNING: Geomagnetic K = 5	02/0233 - 0900
02 Apr 0234	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 1200
02 Apr 0851	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 2100
02 Apr 0851	EXTENDED WARNING: Geomagnetic K = 5	02/0233 - 1500
02 Apr 1102	EXTENDED WARNING: Proton 10MeV Integral Flux $>$ 10pfu	31/1057 - 02/1800
02 Apr 1824	SUMMARY: Proton Event 10MeV Integral Flux \geq 10pfu	31/1105 - 02/0910
02 Apr 2059	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 03/1000
02 Apr 2112	WATCH: Geomagnetic Storm Category G1 predicted	
03 Apr 0905	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 03/1800
03 Apr 1755	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 03/0600
03 Apr 1756	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 04/0600
03 Apr 1943	WARNING: Geomagnetic K = 5	03/1943 - 04/0600

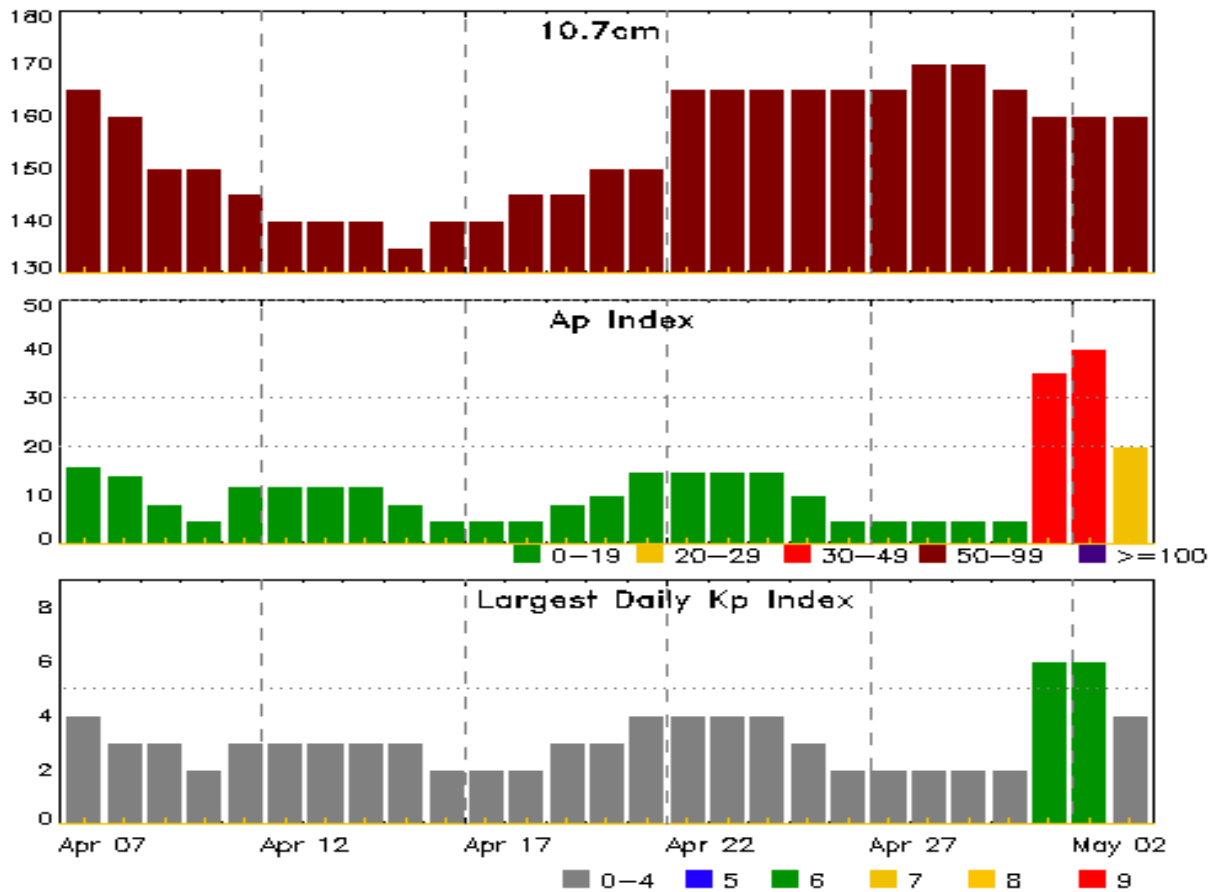


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
03 Apr 2002	ALERT: Geomagnetic K = 5	
04 Apr 0548	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 04/2100
04 Apr 0549	EXTENDED WARNING: Geomagnetic K = 5	03/1943 - 04/1800
04 Apr 1307	ALERT: Geomagnetic K = 5	
04 Apr 1420	WARNING: Geomagnetic K = 6	04/1418 - 2100
04 Apr 1420	EXTENDED WARNING: Geomagnetic K = 5	03/1943 - 04/2359
04 Apr 1420	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 05/0600
04 Apr 2319	ALERT: Geomagnetic K = 5	
05 Apr 0047	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 05/1800
05 Apr 0049	WARNING: Geomagnetic K = 5	05/0050 - 1200
05 Apr 0051	ALERT: Geomagnetic K = 5	
05 Apr 0211	WARNING: Geomagnetic K = 6	05/0210 - 1200
05 Apr 0300	ALERT: Geomagnetic K = 6	
05 Apr 0405	ALERT: Geomagnetic K = 5	
05 Apr 1244	ALERT: Electron 2MeV Integral Flux ≥ 1000 pfu	05/1225
05 Apr 1756	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 06/0600
05 Apr 2006	WARNING: Geomagnetic K = 5	05/2005 - 06/0300
05 Apr 2020	ALERT: Geomagnetic K = 5	
05 Apr 2033	WARNING: Geomagnetic K = 6	05/2032 - 06/0300
06 Apr 0152	ALERT: Geomagnetic K = 5	
06 Apr 0155	EXTENDED WARNING: Geomagnetic K = 5	05/2005 - 06/1200
06 Apr 0501	CONTINUED ALERT: Electron 2MeV Integral Flux ≥ 1000 pfu	05/1225
06 Apr 0555	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 06/2359
06 Apr 2358	EXTENDED WARNING: Geomagnetic K = 4	02/0123 - 07/0559



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
07 Apr	165	16	4	21 Apr	150	15	4
08	160	14	3	22	165	15	4
09	150	8	3	23	165	15	4
10	150	5	2	24	165	15	4
11	145	12	3	25	165	10	3
12	140	12	3	26	165	5	2
13	140	12	3	27	165	5	2
14	140	12	3	28	170	5	2
15	135	8	3	29	170	5	2
16	140	5	2	30	165	5	2
17	140	5	2	01 May	160	35	6
18	145	5	2	02	160	40	6
19	145	8	3	03	160	20	4
20	150	10	3				

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
31 Mar	1016	1024		1037	M1.2	0.011			4048			
01 Apr	0637	0646		0653	M5.6	0.031			4046		190	
01 Apr	2218	2231		2241	M2.5	0.021			4048			
05 Apr	1954	2005		2012	M1.0	0.007			4048			

Flare List

Date	Time			X-ray Class	Optical		
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	Rgn #
31 Mar	0034	0041	0048	C5.5			4048
31 Mar	0218	0235	0244	C8.9			4048
31 Mar	0311	0317	0320	C5.8			4048
31 Mar	0320	0330	0336	C6.5			4048
31 Mar	0344	0352	0356	C7.6			4046
31 Mar	0505	0508	0512	C4.7			4048
31 Mar	0715	0729	0737	C2.6			4048
31 Mar	0737	0741	0747	C2.4			4048
31 Mar	0925	0928	0934	C2.4			4048
31 Mar	0957	1007	1016	C3.1			4048
31 Mar	1016	1024	1037	M1.2			4048
31 Mar	1200	1208	1213	C4.4	SF	N04E41	4046
31 Mar	1229	1240	1250	C2.5			4048
31 Mar	1409	1413	1421	C2.2	SF	S16E63	4048
31 Mar	B1420	U1425	A1435		SF	S16E62	4048
31 Mar	1444	1445	1449		SF	N00E36	4046
31 Mar	B1448	U1507	A1507		SF	S16E63	4048
31 Mar	1631	1637	1641	C4.4			4048
31 Mar	1713	1722	1734	C3.5			4048
31 Mar	1736	1742	1744	C4.1			4048
31 Mar	1744	1750	1800	C6.0	SF	S17E62	4048
31 Mar	1806	1807	1810		SF	S16E62	4048
31 Mar	1828	1831	1837		SF	S16E62	4048
31 Mar	2045	2056	2108		SF	N03E35	4046
31 Mar	2141	2148	2152	C2.6			4048
31 Mar	2300	2304	2312	C2.2			4048
31 Mar	2337	2345	2351	C3.2			4048



Flare List

Date	Time			Optical			Rgn #
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	
01 Apr	0123	0132	0137	C3.2			4046
01 Apr	0258	0306	0330	C3.6			4047
01 Apr	0330	0335	0339	C2.8			4047
01 Apr	0637	0646	0653	M5.6			4046
01 Apr	B0727	U0727	A0732		SF	S30E26	4049
01 Apr	B0728	U0749	A0751		SF	N03E31	4046
01 Apr	B0732	U0734	A0738		SF	S17E53	4048
01 Apr	0747	0755	0802	C5.3			4048
01 Apr	B0749	U0758	A0803		SF	S30E24	4049
01 Apr	B0750	U0751	A0805		SF	S17E53	4048
01 Apr	1031	1040	1046	C5.8	SF	S31E23	4049
01 Apr	1039	1041	1046		SF	N02E28	4046
01 Apr	1458	1502	1511	C2.1	SF	N18W12	4044
01 Apr	1536	U1557	A1624		SF	N02E26	4046
01 Apr	1614	1614	1618		SF	S08W65	4040
01 Apr	1644	1652	1658	C3.5			4044
01 Apr	1835	1843	1850	C3.1			4044
01 Apr	1929	1939	1945	C4.1			4048
01 Apr	2045	2100	2105	C5.2			4048
01 Apr	2105	2110	2112	C5.2			4048
01 Apr	2200	2208	2218	C3.5			4048
01 Apr	2218	2231	2241	M2.5			4048
02 Apr	0115	0126	0143	C2.3			4049
02 Apr	0143	0147	0150	C2.0			4045
02 Apr	0445	0449	0451	C1.6			4048
02 Apr	0621	0632	0644	C1.9			4048
02 Apr	0711	0716	0718	C1.8			4048
02 Apr	1011	1019	1023	C2.0			4048
02 Apr	1039	1053	1114	C8.0	1F	S17E38	4048
02 Apr	1114	1124	1127	C6.2			4048
02 Apr	1213	1213	1220		SF	S16E35	4048
02 Apr	1424	1430	1432	C2.2	SF	S17E37	4048
02 Apr	1521	1523	1528		SF	N27E05	
02 Apr	2008	2028	2039	C2.6			4043
02 Apr	2239	2248	2251	C3.0			4050
02 Apr	2308	2315	2323	C1.7			4048
03 Apr	0451	0502	0513	C2.5			4048
03 Apr	0614	0621	0623	C2.1			4045



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
03 Apr	0815	0822	0827	C2.3	SF	S14E19	4048
03 Apr	0909	0913	0915	C3.4	SF	S14W09	4045
03 Apr	1018	1029	1045	C2.0			4047
03 Apr	1536	1536	1542		SF	S14W10	4045
04 Apr	0727	0734	0737	C1.8			4048
04 Apr	1007	1024	1049	C3.3			4043
04 Apr	1324	1328	1332	C2.2			4043
04 Apr	1411	1411	1416		SF	S22W28	
04 Apr	1434	1446	1453	C4.4	SF	S23W28	4052
04 Apr	1545	1545	1547		SF	S13W03	4048
04 Apr	2324	2338	2354	C5.7			4043
05 Apr	0105	0112	0114	C4.8			4048
05 Apr	0246	0251	0258	C2.3			4048
05 Apr	0617	0624	0629	C2.7			4051
05 Apr	0708	0713	0716	C2.9			4048
05 Apr	1420	1421	1422		SF	S12W12	4048
05 Apr	1502	1502	1505		SF	S13W15	4048
05 Apr	1845	1849	1855	C3.9			4043
05 Apr	1857	1905	1915	C4.7			4043
05 Apr	1954	2005	2012	M1.0			4048
05 Apr	2303	2309	2314	C2.2			4048
05 Apr	2328	2333	2337	C2.1			4048
05 Apr	2346	2349	2352	C2.6			4048
06 Apr	1035	1041	1043	C1.9			4048
06 Apr	1546	1553	1605	C2.9	SF	S14W53	4045
06 Apr	1556	1559	1600		SF	S13W53	4045
06 Apr	1741	1744	1747	C2.0	SF	S13W55	4045
06 Apr	1947	1957	2006	C2.3	SF	S17W23	4048
06 Apr	2225	2225	2231		SF	S11W02	4054



Region Summary

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 4038

21 Mar	S15E60	43	10	1	Axx	2	A								
22 Mar	S15E47	43	10	7	Bxo	2	B								
23 Mar	S14E34	43	plage												
24 Mar	S14E20	44	plage												
25 Mar	S14E06	44	plage												
26 Mar	S14W08	45	plage												
27 Mar	S15W22	46	plage												
28 Mar	S15W36	47	plage												
29 Mar	S15W50	48	plage												
30 Mar	S15W64	48	plage												
31 Mar	S15W78	49	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 44

Region 4039

21 Mar	N09E70	33	30	3	Cro	4	B								
22 Mar	N09E53	37	10	3	Bxo	3	B								
23 Mar	N09E37	40	10	2	Bxo	3	B								
24 Mar	N09E23	41	10	3	Bxo	3	B								
25 Mar	N09E09	41	plage												
26 Mar	N09W05	42	plage												
27 Mar	N09W19	43	plage												
28 Mar	N09W33	44	plage												
29 Mar	N09W47	45	plage								1				
30 Mar	N09W62	46	plage					1			1				
31 Mar	N09W76	47	plage												
01 Apr	N09W90	48	plage												
								1	0	0	2	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 42



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 4040

22 Mar	S08E61	29	30	1	Hax	1	A								
23 Mar	S08E46	31	20	1	Axx	2	A								
24 Mar	S08E32	32	10	1	Axx	2	A								
25 Mar	S08E18	32	plage												
26 Mar	S08E04	33	plage												
27 Mar	S08W10	34	plage												
28 Mar	S08W24	35	plage												
29 Mar	S08W38	36	plage												
30 Mar	S08W52	36	plage												
31 Mar	S08W66	37	plage												
01 Apr	S08W80	38	plage								1				
								0	0	0	1	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 33

Region 4041

22 Mar	N16E63	27	10	1	Axx	1	A								
23 Mar	N17E49	28	10	1	Axx	1	A								
24 Mar	N18E35	29	plage												
25 Mar	N18E21	29	plage												
26 Mar	N18E07	30	plage												
27 Mar	N17E01	23	10	3	Bxo	2	B				1				
28 Mar	N18W13	24	10	1	Axx	1	A								
29 Mar	N18W26	24	10	1	Axx	1	A								
30 Mar	N18W40	24	plage					1			1				
31 Mar	N18W54	25	plage												
01 Apr	N18W68	26	plage												
02 Apr	N18W82	27	plage												
								1	0	0	2	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 23



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 4042															
22 Mar	S12E69	21	10	1	Axx	1	A								
23 Mar	S12E54	23	10	1	Axx	1	A								
24 Mar	S12E40	24	plage												
25 Mar	S12E26	24	plage												
26 Mar	S12E12	25	plage												
27 Mar	S12W02	26	plage												
28 Mar	S12W16	27	plage												
29 Mar	S12W30	28	plage												
30 Mar	S12W44	28	plage												
31 Mar	S12W58	29	plage												
01 Apr	S12W72	30	plage												
02 Apr	S12W86	31	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 26

Region 4043															
25 Mar	N13E55	354	30	5	Dro	5	B	1			2				
26 Mar	N11E52	354	90	8	Dai	11	B	6	1						
27 Mar	N14E28	356	110	7	Dai	14	B	4	1		1				
28 Mar	N15E14	357	100	9	Dai	9	BG	3							
29 Mar	N14E01	357	100	10	Dai	17	BG		1						
30 Mar	N14W12	356	100	12	Eai	15	BG								
31 Mar	N14W27	358	120	14	Eai	13	B								
01 Apr	N14W43	1	100	11	Eai	17	B								
02 Apr	N14W56	1	90	11	Eao	10	B	1							
03 Apr	N14W70	2	40	10	Dao	5	B								
04 Apr	N18W83	1	50	7	Cao	2	B	3							
								18	3	0	3	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 357



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 4044																
27 Mar	N21E48	336	10	4	Bxo	2	B									
28 Mar	N22E34	337	20	5	Cro	3	B									
29 Mar	N21E21	337	30	7	Cro	6	B									
30 Mar	N21E08	336	50	5	Dao	8	B									
31 Mar	N20W04	335	40	5	Dao	9	B									
01 Apr	N20W17	335	40	6	Dso	6	B	3				1				
02 Apr	N20W30	335	120	6	Dao	11	B									
03 Apr	N20W44	336	110	6	Dao	4	B									
04 Apr	N22W57	335	150	5	Dao	5	B									
05 Apr	N22W69	334	130	3	Dao	4	B									
06 Apr	N21W82	334	110	6	Dao	3	B									
								3	0	0		1	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 335

Region 4045

27 Mar	S16E77	307	30	2	Hsx	1	A								
28 Mar	S15E63	308	30	2	Hsx	1	A								
29 Mar	S16E50	308	20	2	Hax	2	A								
30 Mar	S15E37	307	20	2	Hrx	2	A								
31 Mar	S15E23	308	10	3	Axx	4	A								
01 Apr	S14E09	309	10	4	Axx	7	A								
02 Apr	S14W04	309	10	3	Axx	5	A	1							
03 Apr	S14W18	310	30	3	Cao	6	B	2			2				
04 Apr	S13W32	310	20	3	Cso	3	B								
05 Apr	S13W46	311	plage												
06 Apr	S13W60	312	10	5	Bxo	2	B	2			3				
								5	0	0	5	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 309



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 4046															
28 Mar	N05E69	302	270	5	Cho	3	B		1	1	1				
29 Mar	N05E56	302	270	4	Cho	3	B	1							
30 Mar	N05E43	301	270	5	Dho	6	BG	2			2				
31 Mar	N05E31	300	260	6	Dho	9	BG	2			3				
01 Apr	N05E20	298	250	9	Cho	6	BG	1	1		3				
02 Apr	N05E07	298	250	8	Cho	4	B								
03 Apr	N05W07	299	250	8	Cho	4	B								
04 Apr	N06W23	301	160	3	Hsx	1	A								
05 Apr	N06W35	300	230	3	Hsx	1	A								
06 Apr	N06W49	301	200	3	Hsx	1	A								
								6	2	1	9	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 298

Region 4047

28 Mar	S16W10	21	10	3	Cro	3	B								
29 Mar	S16W24	22	20	3	Cro	3	B								
30 Mar	S16W37	21	70	5	Dai	10	B				1				
31 Mar	S16W50	21	60	6	Dao	10	B								
01 Apr	S15W63	21	50	7	Cro	4	B	2							
02 Apr	S15W81	26	10	1	Axx	2	A								
03 Apr	S15W95	27	plage					1							
								3	0	0	1	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 21



Region Summary - continued

Date	Location	Sunspot Characteristics						Flares							
	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 4048															
28 Mar	S15E91	281	plage							1					
29 Mar	S15E77	281	110	4	Dao	5	B	14	1						
30 Mar	S15E63	281	300	12	Eki	10	BG	5	6		7	2			
31 Mar	S16E53	278	440	14	Ekc	32	BGD	18	1		6				
01 Apr	S16E40	278	450	14	Ekc	29	BGD	5	1		2				
02 Apr	S16E27	278	470	17	Fkc	31	BG	8			2	1			
03 Apr	S16E14	278	450	17	Fkc	23	BG	2			1				
04 Apr	S16W02	280	530	16	Fkc	32	BG	1			1				
05 Apr	S16W15	280	500	18	Fkc	28	BG	6	1		2				
06 Apr	S16W28	280	480	18	Fkc	22	BG	2			1				
								61	11	0	22	3	0	0	0

Still on Disk.

Absolute heliographic longitude: 280

Region 4049

31 Mar	S31E27	304	20	2	Cro	4	B								
01 Apr	S31E15	303	50	7	Cso	8	B	1			3				
02 Apr	S30E01	304	70	8	Dso	7	B	1							
03 Apr	S30W12	304	40	9	Dso	8	B								
04 Apr	S28W27	305	60	8	Dao	8	B								
05 Apr	S28W42	307	80	8	Dao	6	B								
06 Apr	S30W55	307	70	9	Dao	6	B								
								2	0	0	3	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 304

Region 4050

02 Apr	N27W02	307	10	2	Bxo	8	B	1							
03 Apr	N27W15	307	10	2	Bxo	4	B								
04 Apr	N28W25	304	10	4	Dso	3	B								
05 Apr	N31W37	302	10	4	Dao	3	B								
06 Apr	N27W52	304	30	5	Cao	4	B								
								1	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 307



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 4051

04 Apr	S08W57	335	10	1	Cro	3	B								
05 Apr	S08W70	334	10	5	Cao	4	B	1							
06 Apr	S08W84	336	plage												
								1	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 335

Region 4052

04 Apr	S21W35	313	10	5	Cro	4	B	1							
05 Apr	S21W49	314	10	5	Cso	4	B								
06 Apr	S21W62	314	plage												
								1	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 313

Region 4053

04 Apr	S09W19	297	10	3	Cro	2	B								
05 Apr	S09W33	298	10	3	Bxo	2	B								
06 Apr	S09W47	299	plage												
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 297

Region 4054

05 Apr	S13E10	255	20	3	Cao	6	B								
06 Apr	S12W03	255	110	5	Dao	9	BG				1				
								0	0	0	1	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 255

Region 4055

05 Apr	N09E34	231	10	5	Cro	2	B								
06 Apr	N09E21	231	10	2	Axx	2	A								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 231



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
		<i>Region 4056</i>													
06 Apr	S05E69	183	50	2	Hsx	1	A	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 183



Preliminary Report and Forecast of Solar Geophysical Data (The Weekly)

Published every Monday by the Space Weather Prediction Center.

U.S. Department of Commerce
NOAA / National Weather Service
Space Weather Prediction Center
325 Broadway, Boulder CO 80305

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

The Weekly has been published continuously since 1951 and is available online since 1997.

<https://www.swpc.noaa.gov/products/weekly-highlights-and-27-day-forecast> --

Current

<ftp://ftp.swpc.noaa.gov/pub/warehouse> -- Online archive from 1997

<https://www.ngdc.noaa.gov/stp/satellite/goes-r.html> -- NCEI GOES data
textarchive

<https://www.swpc.noaa.gov/products/solar-cycle-progression> -- Solar Cycle
Progression web site

<https://www.swpc.noaa.gov/content/contact-us> -- Contact and Copyright
information

https://www.swpc.noaa.gov/sites/default/files/images/u2/Usr_guide.pdf -- User
Guide

