

Solar activity was at very low to low levels during the period. Very low levels occurred on 14, 15 and 19 Apr, while low levels were observed on 13, 16, 17 and 18 April.

Region 4419 (N14, L=314, class/area=Eki/360 on 17 Apr) was the most active region of the period, responsible for 5 out of the 7 C-class flares observed during the week, including the largest one: a C4.1/Sf at 17/0442 UTC. The remainder 2 C-class flares of the period were: a C1.1/Sf at 13/1137 UTC from Region 4414 (N15, L=026, class/area=Dro/030 on 08 Apr) and a C1.6 at 18/0704 UTC from Region 4416 (N19, L=047, class/area=Dai/140 on 12 Apr). Coronal activity was observed during the week with some filament eruptions and few CMEs without Earth-directed components.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at high levels on 13-17 Apr, followed by a day at moderate levels on 18 Apr and returning to high levels on 19 Apr, with a maximum flux of 3,250 pfu observed at 15/1800 UTC.

Geomagnetic field activity was quiet to Moderate storm levels during the period. From 13 to 17 Apr, the geomagnetic activity remained at quiet levels. On 18 Apr, the arrival of a negative polarity CH HSS influence disturbed the Geospace, elevating the activity from unsettled to Moderate storm levels. On 19 Apr, Moderate storm levels were observed during an isolated synoptic period (0600-0900 UTC) and the geomagnetic activity returned to quiet level by the end of the day as the CH HSS effects waned.

Space Weather Outlook

20 April - 16 May 2026

Solar activity is expected to be at low levels, with a varying chance for M-class (R1-R2/Minor-Moderate) flares and a slight chance for X-class (R3/Strong or greater) flares through 16 May.

No proton events are expected at geosynchronous orbit, barring any significant, non-recurrent solar activity.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to reach high levels on 20-22 Apr, 27-28 Apr, 30 Apr-05 May and 08-14 May. Normal to moderate electron flux levels are expected on 23-26 Apr, 29 Apr, 06-07 May and 15-16 May.

Geomagnetic field activity is expected to remain at quiet to active levels during most of the outlook period, with the exception of 5 days when G1 (Minor) storm levels are anticipated due to the recurrent influence of CH HSS: 29-30 Apr (-CH HSS), 07 May (+CH HSS) and 15-16 May (-CH HSS).



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
13 April	99	58	330	B2.6	1	0	0	1	0	0	0	0
14 April	101	64	315	B2.8	0	0	0	1	0	0	0	0
15 April	105	57	460	B3.0	0	0	0	1	0	0	0	0
16 April	108	65	440	B3.6	4	0	0	6	0	0	0	0
17 April	107	50	490	B3.4	1	0	0	2	0	0	0	0
18 April	106	44	420	B3.0	1	0	0	0	0	0	0	0
19 April	105	35	270	B3.1	0	0	0	1	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
	13 April	4.1e+05	1.8e+04
14 April	3.9e+05	1.7e+04	8.5e+07
15 April	5.6e+05	1.8e+04	1.1e+08
16 April	6.4e+05	1.7e+04	7.3e+07
17 April	1.8e+06	1.7e+04	1.0e+08
18 April	1.8e+06	1.7e+04	1.1e+07
19 April	6.4e+05	1.7e+04	4.1e+07

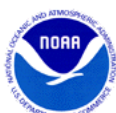
Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	13 April	3	0-1-1-1-1-1-1-1	2	0-1-0-1-0-0-1-1	3
14 April	2	1-0-0-1-1-1-1-0	3	0-0-0-3-2-1-0-0	4	2-0-0-1-1-1-0-0
15 April	3	0-1-1-1-1-1-1-1	1	0-0-0-0-0-1-1-1	4	1-1-1-1-1-2-1-2
16 April	3	0-1-1-1-2-0-1-1	0	0-1-0-0-0-0-0-0	3	1-1-1-1-1-0-1-1
17 April	3	0-0-0-1-2-1-2-2	3	0-0-0-2-0-0-2-2	4	1-1-0-1-0-1-2-2
18 April	24	3-4-5-5-3-2-3-3	52	2-6-7-6-5-4-3-3	33	3-5-6-5-4-3-4-4
19 April	16	3-4-5-3-2-2-1-1	41	4-4-7-6-4-3-2-2	22	4-5-6-4-3-3-2-2

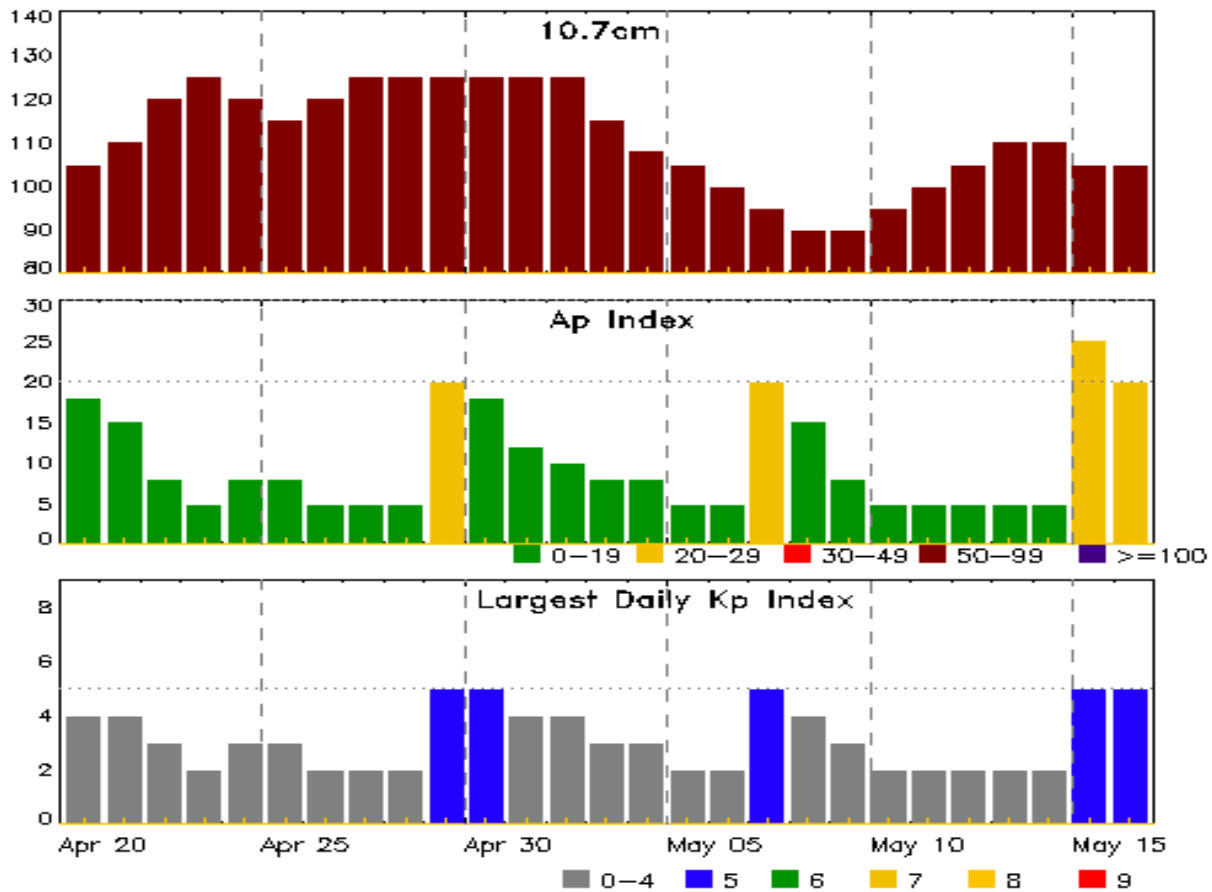


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
13 Apr 1101	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	03/0920
14 Apr 1137	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	03/0920
15 Apr 0756	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	03/0920
15 Apr 2143	WATCH: Geomagnetic Storm Category G2 predicted	
16 Apr 1323	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	03/0920
16 Apr 2209	WATCH: Geomagnetic Storm Category G1 predicted	
17 Apr 0731	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	03/0920
18 Apr 0158	WARNING: Geomagnetic K = 4	18/0157 - 2359
18 Apr 0414	ALERT: Geomagnetic K = 4	
18 Apr 0528	ALERT: Geomagnetic K = 5	
18 Apr 0741	ALERT: Geomagnetic K = 5	
18 Apr 0752	WARNING: Geomagnetic K = 6	18/0751 - 1500
18 Apr 0825	ALERT: Geomagnetic K = 6	
18 Apr 1124	ALERT: Geomagnetic K = 5	
18 Apr 2246	EXTENDED WARNING: Geomagnetic K = 4	18/0157 - 19/1200
18 Apr 2350	WARNING: Geomagnetic K = 5	18/2348 - 19/0900
19 Apr 0604	EXTENDED WARNING: Geomagnetic K = 4	18/0157 - 19/1500
19 Apr 0604	EXTENDED WARNING: Geomagnetic K = 5	18/2348 - 19/1200
19 Apr 0604	ALERT: Geomagnetic K = 5	
19 Apr 0650	ALERT: Geomagnetic K = 5	
19 Apr 0849	EXTENDED WARNING: Geomagnetic K = 4	18/0157 - 19/2359
19 Apr 0849	WARNING: Geomagnetic K = 6	19/0848 - 1500
19 Apr 0849	EXTENDED WARNING: Geomagnetic K = 5	18/2348 - 19/1800
19 Apr 0900	ALERT: Geomagnetic K = 6	
19 Apr 1947	ALERT: Electron 2MeV Integral Flux \geq 1000pfu	19/1920



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
20 Apr	105	18	4	04 May	108	8	3
21	110	15	4	05	105	5	2
22	120	8	3	06	100	5	2
23	125	5	2	07	95	20	5
24	120	8	3	08	90	15	4
25	115	8	3	09	90	8	3
26	120	5	2	10	95	5	2
27	125	5	2	11	100	5	2
28	125	5	2	12	105	5	2
29	125	20	5	13	110	5	2
30	125	18	5	14	110	5	2
01 May	125	12	4	15	105	25	5
02	125	10	4	16	105	20	5
03	115	8	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 245	Radio Flux 2695	Intensity II

No Events Observed

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
	Begin	Max	End				
13 Apr	0113	0118	0131	B3.9			4417
13 Apr	0131	0202	0215	B5.0			4416
13 Apr	0658	0709	0720	B5.1			
13 Apr	0812	0818	0835	B3.9			
13 Apr	1120	1137	1152	C1.1	SF	N17E47	4414
13 Apr	1246	1252	1256	B5.2			
13 Apr	1532	1537	1540	B4.8			4416
13 Apr	1627	1632	1639	B3.7			4419
13 Apr	1805	1812	1816	B4.2			4416
14 Apr	0452	0503	0519	B3.9			
14 Apr	0519	0534	0546	B9.4			4414
14 Apr	0654	0702	0710	B5.6			4416
14 Apr	B1054	U1055	A1102		SF	N17W07	4414
14 Apr	1307	1311	1317	B4.2			4416
14 Apr	1457	1505	1517	B5.8			4416
14 Apr	2147	2154	2159	B4.5			4419
14 Apr	2159	2213	2216	B6.5			4419
15 Apr	0234	0242	0253	B6.4			4416
15 Apr	0438	0443	0455	B7.9			4419
15 Apr	0730	0749	0752	B8.1			4419
15 Apr	1843	1849	1911	B3.9			4419
15 Apr	2230	2237	2248	B5.8	SF	N08E36	4419
16 Apr	0039	0053	0101	C1.2			4419
16 Apr	0156	0202	0206	B5.2			4419
16 Apr	0243	0251	0258	B6.1			4419
16 Apr	0359	0406	0411	B4.9			4419
16 Apr	0459	0506	0511	B4.3			4419
16 Apr	0516	0528	0532	B9.9			4419
16 Apr	0608	0614	0617	B4.5			4419
16 Apr	0720	0730	0734	B8.4	SF	N13E39	4419
16 Apr	0804	0812	0820	B9.8			4419



Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical		Rgn #
	Begin	Max	End			Location Lat CMD		
16 Apr	0854	0904	0913	B9.9	SF	N12E38		4419
16 Apr	0913	0917	0920	B9.4				4419
16 Apr	1104	1114	1131	B7.9				4419
16 Apr	1216	1225	1236	C1.7				4419
16 Apr	1300	1311	1317	C1.1	SF	N08E36		4419
16 Apr	1340	1347	1351	B6.3				4419
16 Apr	1354	1358	1406	B7.3	SF	N12E35		4419
16 Apr	2039	2048	2109	B7.0				4419
16 Apr	2115	2122	2129	C1.0				4419
16 Apr	2131	2132	2134		SF	N11E26		4419
16 Apr	2211	2226	2235	B8.6	SF	N11E29		4419
17 Apr	B0000	0003	0045	B9.1	SF	N11E28		4419
17 Apr	0129	0136	0139	B7.6				4419
17 Apr	0230	0237	0250	B7.7				4419
17 Apr	0427	0442	0502	C4.1	SF	N12E29		4419
17 Apr	0918	0924	0932	B3.8				4416
17 Apr	1004	1012	1020	B5.6				4416
17 Apr	1047	1053	1059	B3.7				4416
17 Apr	1501	1506	1511	B4.9				4416
17 Apr	1526	1532	1539	B5.6				4416
17 Apr	1659	1711	1720	B5.6				4416
17 Apr	1802	1806	1809	B7.5				4416
17 Apr	2106	2115	2121	B5.9				4416
18 Apr	0640	0704	0722	C1.6				4416
18 Apr	1542	1549	1551	B6.5				4416
19 Apr	1309	1324	1328	B5.8				
19 Apr	1328	1338	1340	B5.9				
19 Apr	1414	1417	1422	B6.0				
19 Apr	1435	1446	1452	B6.5	SF	N01E23		
19 Apr	2243	2253	2300	B3.9				
19 Apr	2346	2352	0010	B5.3				4419



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

Region 4411

03 Apr	S05E46	108	10	1	Axx	2	A										
04 Apr	S06E33	108	10	1	Axx	1	A										
05 Apr	S06E18	110	plage														
06 Apr	S06E05	109	10	2	Bxo	2	B										
07 Apr	S06W09	110	plage														
08 Apr	S06W23	111	plage														
09 Apr	S06W36	111	plage														
10 Apr	S06W51	113	plage														
11 Apr	S06W66	114	plage														
12 Apr	S06W81	116	plage														
									0	0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 109

Region 4412

05 Apr	N10E08	120	10	2	Bxo	2	B	3									
06 Apr	N10W04	118	10	4	Bxi	8	B										
07 Apr	N10W17	118	10	4	Bxo	3	B										
08 Apr	N11W29	117	plage														
09 Apr	N11W43	118	plage														
10 Apr	N11W57	119	plage														
11 Apr	N11W71	119	plage														
12 Apr	N11W85	120	plage														
									3	0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 118



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 4414																							
07 Apr	N12E76		25	30	2	Hsx	1	A	1														
08 Apr	N15E62		26	30	3	Dro	3	B	4				2										
09 Apr	N15E50		25	30	5	Cri	3	B															
10 Apr	N15E37		25	20	3	Cro	2	B					2										
11 Apr	N15E25		23	10	3	Bxo	2	B															
12 Apr	N15E11		24	plage																			
13 Apr	N15W03		25	plage					1				1										
14 Apr	N15W17		26	plage									1										
15 Apr	N15W31		27	plage																			
16 Apr	N15W45		27	plage																			
17 Apr	N15W59		28	plage																			
18 Apr	N15W73		29	plage																			
19 Apr	N15W87		30	plage																			
									6	0	0	6	0	0	0	0	0						

Still on Disk.

Absolute heliographic longitude: 25

Region 4415																							
08 Apr	S18E74		14	100	2	Hsx	1	A															
09 Apr	S18E60		14	80	2	Hsx	1	A															
10 Apr	S18E47		15	100	3	Hsx	1	A															
11 Apr	S18E34		14	100	3	Hsx	1	A															
12 Apr	S18E18		17	100	6	Cso	4	B															
13 Apr	S18E08		14	90	5	Hsx	4	A															
14 Apr	S18W05		14	90	3	Hsx	4	A															
15 Apr	S18W19		15	90	3	Hsx	3	A															
16 Apr	S18W33		15	60	2	Hsx	1	A															
17 Apr	S18W46		15	40	2	Hsx	1	A															
18 Apr	S18W61		17	60	2	Hsx	1	A															
19 Apr	S18W74		17	30	2	Hsx	1	A															
									0	0	0	0	0	0	0	0	0						

Still on Disk.

Absolute heliographic longitude: 14



Region Summary - continued

Date	Location		Sunspot Characteristics				Flares																
	Lat CMD	Lon	Helio 10 ⁻⁶ hemi.	Area	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical											
									C	M	X	S	1	2	3	4							
Region 4416																							
10 Apr	N19E13		49	20	2	Dro	4	B															
11 Apr	N19E01		47	70	5	Dai	9	B	1				1										
12 Apr	N19W11		47	140	7	Dai	10	B															
13 Apr	N19W24		46	140	8	Dsi	6	B															
14 Apr	N20W37		46	120	8	Dso	6	B															
15 Apr	N20W50		46	110	7	Dso	7	B															
16 Apr	N20W64		46	100	7	Dso	11	B															
17 Apr	N20W78		47	90	3	Cso	3	B															
18 Apr	N22W91		47	90	2	Hax	1	A	1														
									2	0	0		1	0	0	0	0	0	0	0	0	0	

Crossed West Limb.
Absolute heliographic longitude: 47

Region 4417

11 Apr	S08W73		122	plage					1													
12 Apr	S08W88		123	30	4	Dao	3	B	6													
									7	0	0		0	0	0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 122

Region 4418

13 Apr	S11E07		15	20	3	Cro	3	B														
14 Apr	S11W07		15	5	3	Bxo	2	B														
15 Apr	S11W21		17	plage																		
16 Apr	S11W35		17	plage																		
17 Apr	S11W49		18	plage																		
18 Apr	S11W63		19	plage																		
19 Apr	S11W77		20	plage																		
									0	0	0		0	0	0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 15



Region Summary - continued

Date	Location		Sunspot Characteristics					Flares															
	Lat CMD	Lon	Helio 10 ⁻⁶ hemi.	Area	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical											
									C	M	X	S	1	2	3	4							
Region 4419																							
13 Apr	N13E71	311	80	7	Cso	5	B																
14 Apr	N13E58	311	100	10	Csi	12	BG																
15 Apr	N13E43	313	260	11	Eki	17	BG						1										
16 Apr	N13E29	313	280	12	Eki	23	BG	4					6										
17 Apr	N14E15	314	360	12	Eki	16	BG	1					2										
18 Apr	N13E01	315	270	12	Eho	12	BG																
19 Apr	N14W12	315	240	11	Eao	14	BG																
								5	0	0	9	0	0	0	0	0							

Still on Disk.

Absolute heliographic longitude: 315



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

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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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