

Solar activity was at low levels with a total of 24 C-class flares observed. The largest flares of the period were observed early on 02 March; a C6.1 flare at 02/0206 UTC from Region 4380 (S20, L=195, class/area Dao/140 on 26 Feb) and a C5.2 at 02/0615 UTC and a C 5.9 at 02/ 0749 UTC, both from Region 4381 (N08, L=173, class/area Eao/220 on 03 Mar). Region 4384 (N10, L=150, class/area Eho/300 on 03 Mar) was the most active, producing 10 weak C-class events. No Earth-directed CMEs were observed in available LASCO imagery.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit reached high levels on 02, 03 and 08 Mar with a peak flux of 10,450 pfu observed at 02/1810 UTC. Normal to moderate levels were observed on 04-07 Mar.

Geomagnetic field activity reached quiet to G1 (Minor) geomagnetic storm levels during the period. Quiet levels were observed on 02 Mar through midday on 03 Mar. Unsettled to G1 (Minor) storm levels were observed on the last half of 03 Mar into early 04 Mar due to effects from a positive polarity CH HSS. Quiet to isolated unsettled levels were observed on a majority of 04 Mar through 06 Mar. Negative polarity CH HSS effects influenced 07-08 Mar with quiet to active levels observed on the 7th and quiet to G1 (minor) storms observed on 08 Mar.

Solar wind parameters observed a peak wind speed of about 675 km/s late on 07 Mar. Total field reached peaks of 11 nT on 03 Mar and 12 nT midday on 07 Mar, while Bz was southward to -10 nT late on 03 Mar and -9 nT late on 06 Mar. Phi angle was in a mostly positive orientation on 02 Mar through midday on 06 Mar and in a negative orientation from midday on 06 Mar through 08 Mar.

Space Weather Outlook

09 March - 04 April 2026

Solar activity is expected to be at low levels, with a slight chance for M-class (R1-R2/Minor-Moderate) flares throughout the outlook period. Elevated probabilities are related to the flare potential of both currently observed spot groups as well as the potential from returning regions.

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 09-11, 16-19, 23-30 Mar and 04 Apr due to the influence from multiple, recurrent, CH HSSs. The remainder of the outlook period is likely to be at normal to moderate levels.

Geomagnetic field activity is expected to reach G1 (Minor) geomagnetic storm levels on 14 Mar, 22 Mar, 25 Mar and 03-04 Apr during the onset CH HSS. G2 (Moderate) geomagnetic storm



levels are likely on 21 Mar due to negative polarity CH HSS effects. Unsettled to active levels are likely on 09-11, 15-20, 23-24, 26-28, 30 Mar and 02 Apr. All elevated levels of geomagnetic activity are associated with the anticipated influence of multiple, recurrent, CH HSSs. The remainder of the outlook period is likely to be at mostly quiet levels.



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
02 March	148	82	740	B9.0	8	0	0	0	0	0	0	0
03 March	144	64	780	B5.8	6	0	0	7	0	0	0	0
04 March	141	71	700	B4.4	2	0	0	0	0	0	0	0
05 March	146	73	680	B5.4	4	0	0	0	0	0	0	0
06 March	143	75	770	B5.6	1	0	0	0	0	0	0	0
07 March	135	75	750	B5.0	1	0	0	0	0	0	0	0
08 March	135	76	670	B5.4	3	0	0	0	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	
	02 March	1.6e+06	1.7e+04	5.6e+08
03 March	3.1e+06	1.5e+04	9.8e+07	
04 March	1.8e+06	1.5e+04	2.3e+07	
05 March	5.3e+05	1.6e+04	2.8e+07	
06 March	1.5e+06	1.5e+04	3.2e+07	
07 March	1.3e+06	1.5e+04	1.2e+07	
08 March	6.4e+05	1.6e+04	4.0e+07	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	02 March	4	1-1-1-1-2-2-1-1	3	1-1-1-0-3-1-0-0	5
03 March	14	0-2-3-3-3-3-3-4	16	1-2-3-5-2-4-2-3	16	1-3-2-2-2-3-3-5
04 March	6	2-2-1-2-2-2-2-1	9	3-2-2-4-2-1-1-0	7	2-3-2-2-1-1-2-1
05 March	3	1-1-1-0-2-1-1-0	1	1-0-1-0-0-0-0-0	4	2-1-2-0-1-0-0-1
06 March	7	1-3-2-1-2-1-1-3	12	0-1-1-3-5-3-1-2	7	1-3-2-2-2-1-1-3
07 March	11	3-3-2-2-2-2-3-3	23	3-4-4-4-3-4-4-3	18	4-3-3-2-2-3-4-4
08 March	14	3-3-3-2-4-3-2-2	50	4-4-7-4-6-6-3-2	39	5-4-4-3-4-4-3-2

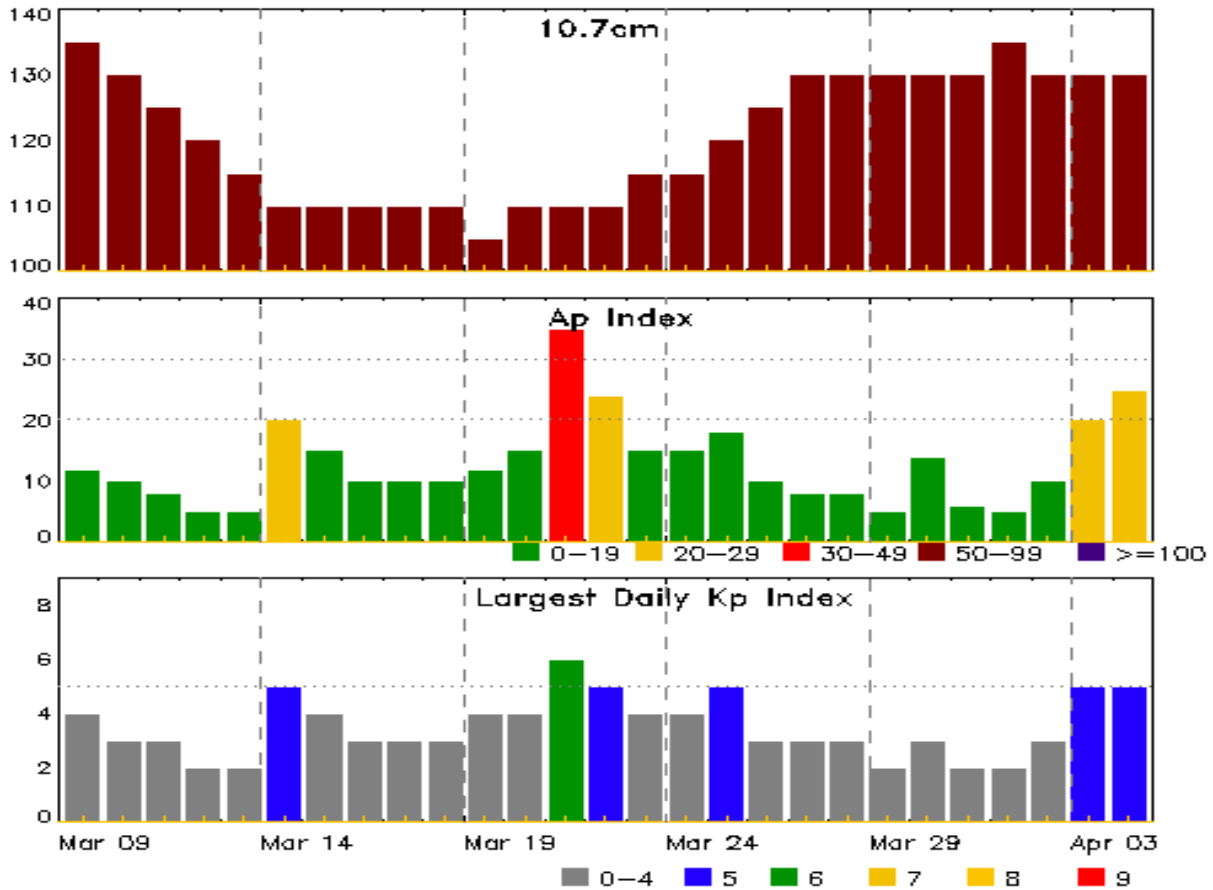


Alerts and Warnings Issued

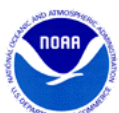
Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
02 Mar 0500	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1045
03 Mar 1341	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1045
03 Mar 2208	WARNING: Geomagnetic K = 4	03/2208 - 04/0600
03 Mar 2228	ALERT: Geomagnetic K = 4	
03 Mar 2230	WARNING: Geomagnetic K = 5	03/2230 - 04/0300
03 Mar 2232	WARNING: Geomagnetic K = 5	03/2230 - 04/0300
03 Mar 2248	ALERT: Geomagnetic K = 5	
03 Mar 2305	WATCH: Geomagnetic Storm Category G1 predicted	
06 Mar 1752	CANCELLATION: Geomagnetic Storm Category G1 predicted	
07 Mar 0026	WARNING: Geomagnetic K = 4	07/0025 - 1800
07 Mar 0206	ALERT: Geomagnetic K = 4	
07 Mar 1755	EXTENDED WARNING: Geomagnetic K = 4	07/0025 - 08/1800
08 Mar 0149	WARNING: Geomagnetic K = 5	08/0149 - 1500
08 Mar 0242	ALERT: Geomagnetic K = 5	
08 Mar 1455	EXTENDED WARNING: Geomagnetic K = 5	08/0149 - 2359
08 Mar 1458	EXTENDED WARNING: Geomagnetic K = 4	07/0025 - 09/1500
08 Mar 1527	ALERT: Electron 2MeV Integral Flux \geq 1000pfu	08/1510



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
09 Mar	135	12	4	23 Mar	115	15	4
10	130	10	3	24	115	15	4
11	125	8	3	25	120	18	5
12	120	5	2	26	125	10	3
13	115	5	2	27	130	8	3
14	110	20	5	28	130	8	3
15	110	15	4	29	130	5	2
16	110	10	3	30	130	14	3
17	110	10	3	31	130	6	2
18	110	10	3	01 Apr	135	5	2
19	105	12	4	02	130	10	3
20	110	15	4	03	130	20	5
21	110	35	6	04	130	25	5
22	110	24	5				



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	2695	Intensity II

No Events Observed

Flare List

Date	Time			X-ray Class	Optical			Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	Rgn #	
02 Mar	0007	0015	0019	C1.3			4384	
02 Mar	0019	0026	0029	C2.8			4384	
02 Mar	0150	0203	0232	C1.3			4384	
02 Mar	0429	0438	0440	C4.5			4384	
02 Mar	0640	0646	0655	C2.0			4381	
02 Mar	0836	0847	0854	C2.5			4381	
02 Mar	1022	1029	1034	C2.9			4384	
02 Mar	1147	1154	1158	C2.1			4384	
03 Mar	0017	0030	0052	C2.9			4381	
03 Mar	1234	1251	1303	C1.1			4384	
03 Mar	1406	1429	1446	C1.6			4384	
03 Mar	1545	1602	1616	C2.0	SF	N11E63	4384	
03 Mar	1737	1738	1741		SF	N17W02	4378	
03 Mar	1853	1855	1858		SF	N17W04	4378	
03 Mar	1902	1913	1932	C1.1				
03 Mar	1946	1950	2000		SF	N17W04	4378	
03 Mar	2002	2002	2011		SF	N17W04	4378	
03 Mar	2105	2107	2108		SF	N16W04	4378	
03 Mar	2111	2112	2113		SF	N16W04	4378	
03 Mar	2153	2202	2208	C1.0			4381	
04 Mar	0214	0225	0255	C1.9			4380	
04 Mar	0257	0301	0303	C4.1			4384	
05 Mar	0703	0712	0716	C1.9			4383	
05 Mar	0858	0901	0904	C1.3			4378	
05 Mar	1346	1353	1359	B8.3				
05 Mar	1926	1950	2011	C1.8			4381	
05 Mar	2223	2242	2302	C1.9			4381	
06 Mar	0724	0728	0733	C1.2			4381	
06 Mar	1946	1953	1957	B9.3			4378	
07 Mar	1001	1020	1040	C1.0			4385	
08 Mar	0312	0326	0339	B8.6			4381	



Flare List

Date	Time			Optical			Rgn #
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	
08 Mar	0439	0443	0449	C1.2			4387
08 Mar	0919	0931	0942	B9.3			
08 Mar	1502	1507	1512	C2.0			4387
08 Mar	1717	1735	1753	C1.2			4381



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 4378																							
25 Feb	N17E75	207	150	4	Hsx	2	A																
26 Feb	N16E65	204	200	10	Dso	3	B																
27 Feb	N17E51	204	250	11	Cho	4	B	3					3										
28 Feb	N17E39	203	300	11	Eho	7	B	1															
01 Mar	N16E21	208	270	3	Hhx	1	A																
02 Mar	N15E13	203	250	12	Cho	8	B																
03 Mar	N15W02	205	250	13	Cho	6	B							6									
04 Mar	N16W15	204	230	12	Cso	12	B																
05 Mar	N16W29	205	230	12	Cso	6	B	1															
06 Mar	N16W44	207	240	6	Cso	5	B																
07 Mar	N16W59	209	240	6	Cso	4	B																
08 Mar	N15W73	210	170	4	Cso	2	B																
								5	0	0	9	0	0	0	0	0							

Still on Disk.

Absolute heliographic longitude: 205

Region 4379																							
25 Feb	S16E74	208	40	7	Bxo	3	B																
26 Feb	S17E64	205	50	7	Bxo	6	B	1					1										
27 Feb	S17E50	205	10	7	Bxo	3	B																
28 Feb	S17E38	204	plage																				
01 Mar	S19E28	201	plage																				
02 Mar	S19E14	202	plage																				
03 Mar	S19W01	203	plage																				
04 Mar	S19W15	205	plage																				
05 Mar	S19W29	205	plage																				
06 Mar	S19W43	206	plage																				
07 Mar	S19W57	207	plage																				
08 Mar	S19W71	208	plage																				
								1	0	0	1	0	0	0	0	0							

Still on Disk.

Absolute heliographic longitude: 203



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 4383																							
01 Mar	N15W10	239	20	5	Bxo	3	B																
02 Mar	N15W23	239	10	4	Bxo	2	B																
03 Mar	N15W41	244	10	1	Axx	1	A																
04 Mar	N15W55	245	plage																				
05 Mar	N17W64	240	plage						1														
06 Mar	N17W78	241	plage																				
									1	0	0	0	0	0	0	0	0	0	0	0	0		

Crossed West Limb.
Absolute heliographic longitude: 239

Region 4384																							
01 Mar	N10E75	154	220	3	Hsx	1	A	5															
02 Mar	N10E67	149	250	13	Ehi	6	B	6															
03 Mar	N10E53	150	300	14	Eho	8	B	3			1												
04 Mar	N09E40	150	290	13	Eho	6	B	1															
05 Mar	N09E26	150	260	11	Eho	5	B																
06 Mar	N10E14	149	260	10	Dho	5	B																
07 Mar	N09W01	151	270	11	Eho	9	B																
08 Mar	N10W14	151	240	10	Dao	5	B																
									15	0	0	1	0	0	0	0	0	0	0	0	0		

Still on Disk.
Absolute heliographic longitude: 151

Region 4385																							
04 Mar	S08E31	159	10	3	Bxo	5	B																
05 Mar	S08E17	159	10	4	Bxo	4	B																
06 Mar	S09E02	161	10	2	Cro	3	B																
07 Mar	S09W12	162	10	1	Axx	1	A	1															
08 Mar	S09W25	162	10	4	Axx	3	A																
									1	0	0	0	0	0	0	0	0	0	0	0	0		

Still on Disk.
Absolute heliographic longitude: 161

Region 4386																							
05 Mar	N16W63	239	10	5	Bxo	1	B																
06 Mar	N15W76	239	60	4	Cao	2	B																
07 Mar	N17W90	240	40	2	Axx	1	A																
									0	0	0	0	0	0	0	0	0	0	0	0	0		

Crossed West Limb.
Absolute heliographic longitude: 239



Region Summary - continued

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

Region 4387

08 Mar	N09E65	72	50	3	Dao	5	B	2									
								2	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 72



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

