

Solar activity was reached moderate after an M2.3 flare at 25/1154 UTC from Region 4379 (S17, L=205, class/area=Bxo/050 on 26 Feb). A Type II radio sweep was also observed on 25 Feb, associated with a 5-degree filament eruption near S08W27 and a C2.6 flare at 25/0656 UTC. Modeling of the ejecta from the event suggested possible glancing influence at Earth on 28 Feb - 01 Mar. For the remainder of the week, activity was observed between low and very low levels.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was primarily at high levels through the past seven days.

Geomagnetic field activity was reached G1 (Minor) geomagnetic storm levels on 23 Feb during the onset of a negative polarity CH HSS. Solar wind speeds increased from ~450 km/s to ~700 km/s. Total magnetic field strength peaked around 7 nT, then fell to at or below 5 nT for the remainder of the outlook period. Active conditions were observed over 24-26 Feb and finally to unsettled levels over 27 Feb - 01 Mar as solar wind speeds from the coronal hole gradually waned.

Space Weather Outlook **02 March - 28 March 2026**

Solar activity is expected to be at low levels, with a change 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 on the visible disk as well as the potential from regions that are expected to return from the Sun's farside.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to reach high levels on 02-08 Mar, 11-12 Mar, 15-19 Mar, and 21-28 Mar due to anticipated 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 range from quiet to G2 (Moderate) geomagnetic storm levels. G2 conditions are likely on 21 Mar; G1 (Minor) conditions are likely on 22 Mar; active conditions are likely on 03 Mar, 10 Mar, 12 Mar, 14-15 Mar, 20 Mar, and 23-25 Mar; unsettled conditions are likely on 02 Mar, 04 Mar, 06 Mar, 08-09 Mar, 11 Mar, 13 Mar, 16-19 Mar, and 26-28 Mar. 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
23 February	108	0	0	B2.9	0	0	0	0	0	0	0	0
24 February	120	0	0	B7.6	3	0	0	0	0	0	0	0
25 February	125	25	190	B8.8	12	1	0	1	0	0	0	0
26 February	130	43	390	B5.9	5	0	0	1	0	0	0	0
27 February	139	53	520	B6.3	11	0	0	3	0	0	0	0
28 February	141	44	620	C1.0	7	0	0	1	0	0	0	0
01 March	147	85	810	B6.8	17	0	0	2	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	
	23 February	4.0e+06	1.7e+04	1.4e+08
24 February	2.4e+06	2.1e+04	4.4e+08	
25 February	8.0e+05	1.8e+04	3.9e+08	
26 February	5.5e+05	1.7e+04	3.6e+08	
27 February	3.2e+05	1.7e+04	3.3e+08	
28 February	2.1e+05	1.6e+04	2.5e+08	
01 March	4.6e+05	1.7e+04	2.8e+08	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	23 February	17	3-4-3-3-3-2-4-3	31	3-5-5-5-5-2-3-3	23
24 February	12	3-3-3-2-3-3-2-2	29	3-4-3-5-6-3-3-3	14	3-4-3-2-3-2-3-3
25 February	11	3-2-2-3-3-2-1-3	20	3-3-3-5-4-3-2-3	14	4-2-2-3-3-3-2-4
26 February	14	3-4-3-3-3-2-2-2	36	3-4-6-6-5-4-2-2	18	4-4-4-3-3-2-3-3
27 February	9	3-2-2-2-3-2-2-1	22	2-2-2-3-6-5-2-1	10	3-2-2-2-3-3-2-2
28 February	4	1-2-0-1-2-2-1-1	11	1-2-2-2-5-2-1-2	8	2-3-2-1-3-2-2-2
01 March	7	2-2-2-2-2-2-1-2	11	2-2-2-5-3-1-0-1	12	3-3-2-2-2-1-2-2

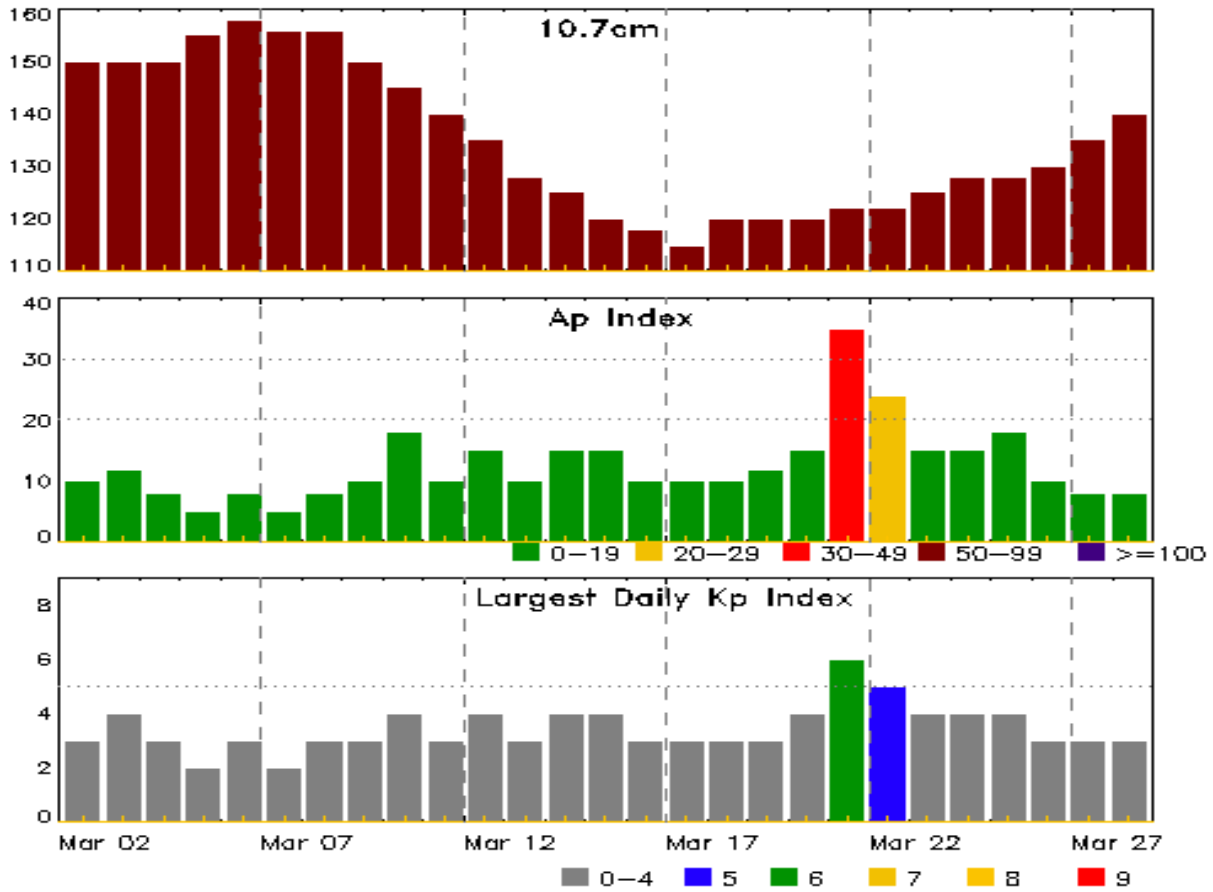


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
23 Feb 0445	ALERT: Geomagnetic K = 5	
23 Feb 0556	EXTENDED WARNING: Geomagnetic K = 4	21/2230 - 23/2359
23 Feb 0556	EXTENDED WARNING: Geomagnetic K = 5	22/2154 - 23/1500
23 Feb 1134	ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1045
23 Feb 2139	WARNING: Geomagnetic K = 5	23/2140 - 24/0600
23 Feb 2205	EXTENDED WARNING: Geomagnetic K = 4	21/2230 - 24/1200
24 Feb 0502	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1045
24 Feb 1155	EXTENDED WARNING: Geomagnetic K = 4	21/2230 - 24/2100
25 Feb 0135	WARNING: Geomagnetic K = 4	25/0134 - 0900
25 Feb 0301	ALERT: Geomagnetic K = 4	
25 Feb 0501	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1045
25 Feb 0728	ALERT: Type II Radio Emission	25/0653
25 Feb 0855	EXTENDED WARNING: Geomagnetic K = 4	25/0134 - 1800
25 Feb 2141	WARNING: Geomagnetic K = 4	25/2140 - 26/0300
25 Feb 2147	ALERT: Geomagnetic K = 4	
26 Feb 0108	EXTENDED WARNING: Geomagnetic K = 4	25/2140 - 26/1200
26 Feb 0110	WARNING: Geomagnetic K = 5	26/0109 - 0900
26 Feb 0459	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1045
26 Feb 1155	EXTENDED WARNING: Geomagnetic K = 4	25/2140 - 26/1800
27 Feb 0459	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1045
28 Feb 0500	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1045
01 Mar 0509	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1045



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
02 Mar	150	10	3	16 Mar	118	10	3
03	150	12	4	17	115	10	3
04	150	8	3	18	120	10	3
05	155	5	2	19	120	12	3
06	158	8	3	20	120	15	4
07	156	5	2	21	122	35	6
08	156	8	3	22	122	24	5
09	150	10	3	23	125	15	4
10	145	18	4	24	128	15	4
11	140	10	3	25	128	18	4
12	135	15	4	26	130	10	3
13	128	10	3	27	135	8	3
14	125	15	4	28	140	8	3
15	120	15	4				



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	Intensity IV
25 Feb	1535	1559		1609	M2.3		0.021		4380			

Flare List

Date	Time			X-ray Class	Optical		
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	Rgn #
23 Feb	0243	0252	0259	B5.0			
23 Feb	1520	1531	1545	B5.4			
24 Feb	0722	0733	0747	C1.0			
24 Feb	2304	2313	2320	C2.1			
24 Feb	2320	2325	2328	C2.4			
25 Feb	0008	0024	0032	C2.3			
25 Feb	0032	0045	0107	C5.3			
25 Feb	0219	0229	0242	C1.4			
25 Feb	0259	0309	0330	C1.5			
25 Feb	0508	0515	0536	C4.8			
25 Feb	0641	0656	0709	C2.6	SF	S08W28	
25 Feb	0805	0812	0816	C1.0			
25 Feb	0848	0859	0938	C2.6			
25 Feb	0938	0948	0955	C3.2			
25 Feb	1026	1036	1040	C1.2			
25 Feb	1102	1123	1134	C3.9			
25 Feb	1238	1245	1251	B9.9			
25 Feb	1535	1559	1609	M2.3			4380
25 Feb	1840	2003	2103	C1.8			
26 Feb	1504	1510	1515	C1.5			4380
26 Feb	1718	1739	1756	C1.8	SF	S18E74	4379
26 Feb	1846	1852	1856	C1.4			4380
26 Feb	1856	1909	1917	C6.3			
26 Feb	2312	2316	2319	C1.1			
27 Feb	0018	0029	0035	C2.1			4380
27 Feb	0106	0111	0118	C1.4			4380
27 Feb	0216	0223	0231	C2.0			4380
27 Feb	0424	0430	0439	C1.1			
27 Feb	0708	0717	0726	C1.3			4380
27 Feb	0904	0912	0915	C1.1			4380



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
27 Feb	1141	1148	1151	C1.5			4380
27 Feb	1247	1259	1303	C3.5			4381
27 Feb	1727	1728	1729		SF	N14E60	4378
27 Feb	1810	1815	1819	C1.2			4378
27 Feb	1932	1942	1949	C2.8	SF	N14E59	4378
27 Feb	1959	2009	2014	C3.4	SF	N14E59	4378
28 Feb	0256	0313	0325	C6.4			4380
28 Feb	0523	0534	0543	C2.2			4378
28 Feb	0946	1002	1009	C2.9			4381
28 Feb	1016	1025	1029	C2.2			4381
28 Feb	1521	1533	1548	C2.7			
28 Feb	1726	1729	1737		SF	S09W73	
28 Feb	1754	1804	1822	C3.2			4381
28 Feb	2118	2132	2144	C4.7			4381
01 Mar	0035	0042	0052	C1.9			4380
01 Mar	0124	0132	0136	C4.7			4381
01 Mar	0155	0206	0221	C6.1			4380
01 Mar	0547	0552	0555	C2.0			4381
01 Mar	0607	0615	0622	C5.2			4381
01 Mar	0730	0749	0803	C5.9			4381
01 Mar	1007	1011	1014	C1.5			4384
01 Mar	1141	1147	1200	C1.3			4381
01 Mar	1455	1501	1504	C1.4			4384
01 Mar	1504	1509	1512	C1.8			
01 Mar	1653	1702	1708	C2.6			4384
01 Mar	1807	1813	1824	C3.5	SF	N06E57	4381
01 Mar	1928	1932	1942	C2.4	SF	N09E60	4381
01 Mar	1952	2005	2013	C2.7			4381
01 Mar	2038	2049	2100	C2.5			4381
01 Mar	2130	2137	2141	C1.8			4384
01 Mar	2141	2148	2159	C4.0			4384



Region Summary

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 4375																				
11 Feb	N16E72		34	60	2	Hsx	1	A												
12 Feb	N15E57		36	40	1	Hsx	1	A												
13 Feb	N16E44		35	40	1	Hax	1	A												
14 Feb	N16E31		35	30	2	Hax	1	A												
15 Feb	N16E18		35	20	1	Hrx	1	A												
16 Feb	N16E05		35	10	1	Hrx	1	A												
17 Feb	N16W08		35	10	1	Hrx	1	A												
18 Feb	N16W21		35	10	1	Hrx	1	A												
19 Feb	N16W35		36	10	1	Hrx	1	A												
20 Feb	N17W48		36	10	1	Axx	1	A												
21 Feb	N17W62		36	plage																
22 Feb	N17W76		37	plage																
23 Feb	N17W90		38	plage																
									0	0	0	0	0	0	0	0	0	0		

Crossed West Limb.

Absolute heliographic longitude: 35

Region 4376																				
14 Feb	N13E54		13	10	1	Axx	1	A												
15 Feb	N13E41		13	10	1	Axx	1	A												
16 Feb	N13E27		13	10	1	Axx	1	A												
17 Feb	N13E14		14	plage																
18 Feb	N13E01		14	plage																
19 Feb	N13W13		14	plage																
20 Feb	N13W27		15	plage																
21 Feb	N13W41		15	plage																
22 Feb	N13W55		16	plage																
23 Feb	N13W69		17	plage																
24 Feb	N13W83		18	plage																
									0	0	0	0	0	0	0	0	0	0		

Crossed West Limb.

Absolute heliographic longitude: 14



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 4380																
25 Feb	S20E88	195	plage								1					
26 Feb	S20E74	195	140	8	Dao	4	BD	2								
27 Feb	S20E60	195	110	9	Dao	4	BG	6								
28 Feb	S21E49	193	120	8	Cao	4	B	1								
01 Mar	S21E35	194	80	9	Cao	10	B	2								
									11	1	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 194

Region 4381

27 Feb	N08E77	178	150	5	Hax	2	A	1								
28 Feb	N07E69	180	200	9	Dao	3	B	4								
01 Mar	N08E55	174	200	13	Eao	6	B	9			2					
									14	0	0	2	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 174

Region 4382

01 Mar	N22W48	277	20	3	Bxo	4	B									
									0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 277

Region 4383

01 Mar	N15W10	239	20	5	Bxo	3	B									
									0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 239

Region 4384

01 Mar	N10E75	154	220	3	Hsx	1	A	5								
									5	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 154



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

