Space Weather Highlights
26 October - 01 November 2026

SWPC PRF 2670
02 November 2026

Solar activity was at low levels with nine C-Class flares observed. Region 4561 (S11, L=28, class/area=Dai/030 on 26 Oct) produced the largest event of the period: a C2.8 flare at 26/1840 UTC, as well as nearly all of the remaining C-class flares of the period. The only exception was a C1.5 flare at 26/0134 UTC from Region 4560 (N13, L=49, class/area=Fao/020 on 26 Oct). The only notable CME activity was from a filament lift off at approximately 26/2142 UTC from an area near N30E75. Analysis indicated mostly a miss, though a glancing blow was not ruled out of the question on 31 Oct.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at high levels throughout the period, with the exception of 31 Oct when values dropped to moderate levels.

Geomagnetic field activity was at quiet levels 26-29 Oct, quiet to active levels on 30 Oct, unsettled to G2 (Moderate) levels on 31 Oct, and quiet to G1 (Minor) levels on 01 Nov. Activity increased the last two days as a result of the onset of a positive polarity CH HSS combined with possible CME effects mixed in from the 26 Oct filament eruption.

Space Weather Outlook
02 November - 28 November 2026

Solar activity is expected to be predominantly at low levels, with a slight chance to a chance for isolated M-class (R1-R2/Minor-Moderate) radio blackouts) flare activity associated with any developing spot groups during the period.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at moderate levels on 02 Nov and 06-18 Nov. Flux levels are anticipated to reach high levels on 03-05 Nov and 19-28 Nov.

Geomagnetic field activity is expected to be at mostly quiet levels on 03-04 Nov, 08 Nov, 13-15 Nov, and 20-25 Nov. Unsettled to active periods are anticipated on 02 Nov, 05-07 Nov, 09-12 Nov, and 26 Nov. An increase to G1, possibly G2 geomagnetic storm levels is likely on 27-28 Nov. The increase in activity is associated with multiple recurrent coronal holes.

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
26 October	91	25	40	B2.8	6	0	0	3	0	0	0	0
27 October	89	25	40	B2.5	1	0	0	0	0	0	0	0
28 October	93	12	10	B2.6	1	0	0	0	0	0	0	0
29 October	89	22	20	B2.0	0	0	0	0	0	0	0	0
30 October	90	36	100	B1.8	0	0	0	1	0	0	0	0
31 October	92	24	60	B1.9	0	0	0	0	0	0	0	0
01 November	94	30	60	B2.4	1	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
26 October	3.3e+05	2.0e+04	1.3e+08
27 October	1.7e+05	1.9e+04	6.3e+07
28 October	3.3e+05	1.9e+04	7.9e+07
29 October	1.8e+05	1.9e+04	4.0e+07
30 October	6.7e+05	2.0e+04	5.5e+07
31 October	1.8e+06	1.9e+04	1.7e+07
01 November	3.4e+05	2.1e+04	9.8e+07

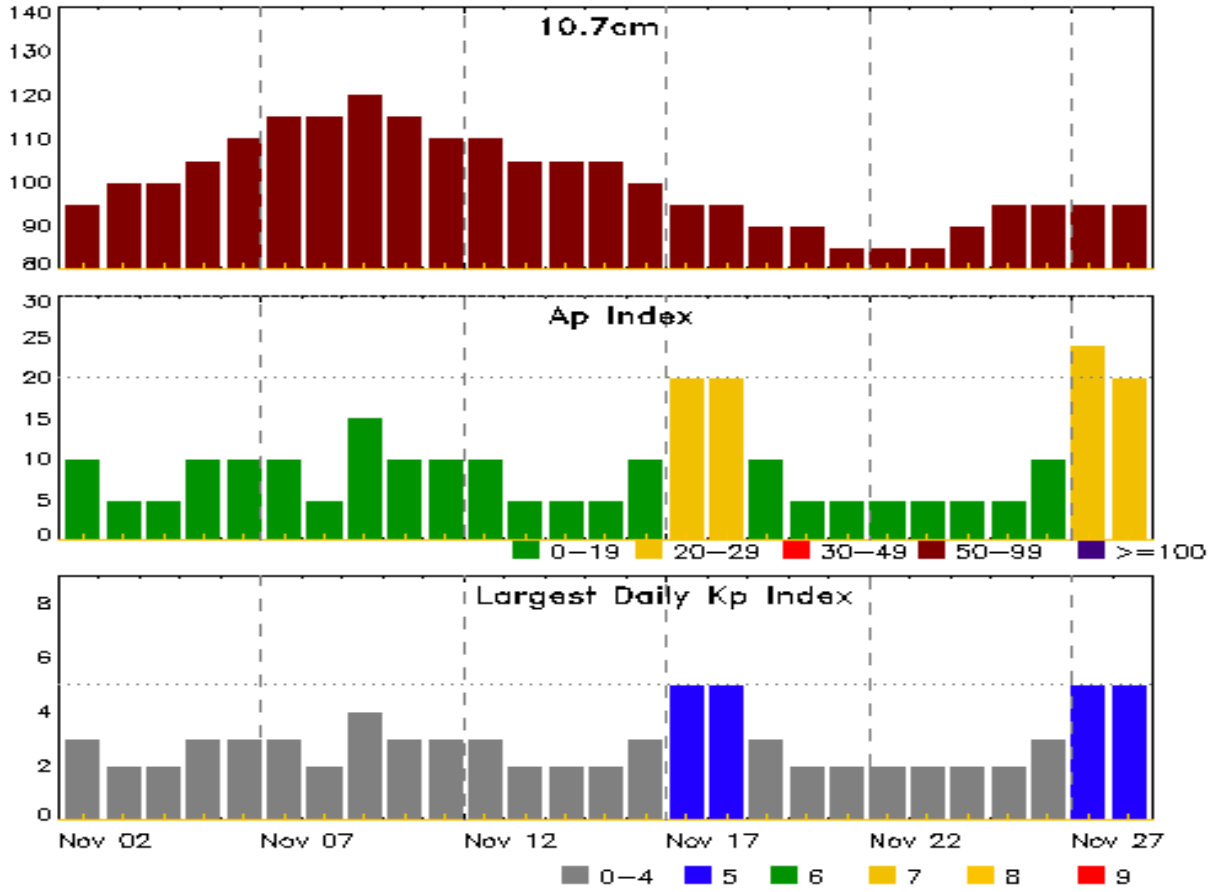
Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
26 October	3	0-0-1-2-2-1-1-1	8	0-0-0-4-4-2-0-0	4	0-1-1-2-2-1-1-1
27 October	6	1-2-2-1-3-1-1-1	6	1-2-1-3-3-0-1-0	6	2-3-2-1-2-1-2-1
28 October	7	2-2-2-1-2-2-2-2	7	0-1-3-4-0-0-2-1	7	2-2-2-2-1-1-2-2
29 October	4	2-3-1-0-1-1-1-0	0	0-0-0-0-0-0-0-0	4	2-2-1-0-0-0-0-1
30 October	9	1-2-2-1-3-2-1-4	11	1-1-2-1-4-4-1-3	10	2-2-2-2-2-2-1-4
31 October	16	2-3-3-2-3-3-2-5-3	36	2-2-4-6-4-5-6-3	24	3-3-3-3-3-3-6-4
01 November	13	4-4-3-2-2-2-2-1	31	3-4-6-5-5-2-3-2	39	5-4-3-3-3-2-3-2

Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
26 Oct 0517	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	23/1140
27 Oct 1138	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	23/1140
28 Oct 0923	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	23/1140
28 Oct 1638	WATCH: Geomagnetic Storm Category G1 predicted	
29 Oct 1614	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	23/1140
29 Oct 1910	WATCH: Geomagnetic Storm Category G1 predicted	
30 Oct 1459	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	23/1140
30 Oct 2224	WARNING: Geomagnetic K = 4	30/2223 - 31/1200
30 Oct 2240	ALERT: Geomagnetic K = 4	30/2235
30 Oct 2311	WARNING: Geomagnetic K = 5	30/2310 - 31/0600
31 Oct 1220	WARNING: Geomagnetic K = 4	31/1235 - 01/1500
31 Oct 1847	ALERT: Geomagnetic K = 4	31/1845
31 Oct 1904	WARNING: Geomagnetic K = 5	31/1901 - 2359
31 Oct 1907	ALERT: Geomagnetic K = 5	31/1907
31 Oct 1908	WARNING: Geomagnetic K = 6	31/1908 - 2359
31 Oct 1914	ALERT: Geomagnetic K = 6	31/1914
01 Nov 0008	WARNING: Geomagnetic K = 5	01/0007 - 0900
01 Nov 0117	ALERT: Geomagnetic K = 5	01/0117
01 Nov 1302	ALERT: Electron 2MeV Integral Flux >= 1000pfu	01/1302
01 Nov 1457	EXTENDED WARNING: Geomagnetic K = 4	31/1235 - 01/2359

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 Nov	95	10	3	16 Nov	100	10	3
03	100	5	2	17	95	20	5
04	100	5	2	18	95	20	5
05	105	10	3	19	90	10	3
06	110	10	3	20	90	5	2
07	115	10	3	21	85	5	2
08	115	5	2	22	85	5	2
09	120	15	4	23	85	5	2
10	115	10	3	24	90	5	2
11	110	10	3	25	95	5	2
12	110	10	3	26	95	10	3
13	105	5	2	27	95	24	5
14	105	5	2	28	95	20	5
15	105	5	2				

Energetic Events

	Time			X-ray		Optical Information			Peak Radio Flux		Sweep Freq Intensity	
Date	Begin	Max	Half Max	Class	Integ Flux	Imp/ Brtns	Location Lat CMD	Rgn #	245	2695	II	IV

No Events Observed

Flare List

	Time				Optical		
Date	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
26 Oct	0004	0013	0019	B7.0			4560
26 Oct	0123	0134	0139	C1.5			4560
26 Oct	0352	0355	0357	C1.2			4561
26 Oct	0407	0410	0415	B4.3			4560
26 Oct	0441	0449	0453	B4.1			4560
26 Oct	0536	0544	0548	C1.5			4561
26 Oct	0739	0748	0800	B7.9			4561
26 Oct	0821	0838	0851	C1.9			4561
26 Oct	0911	0933	1009	C1.0	SF	S11W68	4561
26 Oct	1013	1018	1027	B7.7			4561
26 Oct	1122	1126	1129	B5.3			4561
26 Oct	1129	1135	1139	B7.5			4561
26 Oct	1207	1217	1224	B8.4	SF	N13E43	
26 Oct	1350	1358	1404	B6.0			4561
26 Oct	1727	1736	1741	B9.4			4560
26 Oct	1817	1840	1902	C2.8	SF	S13W73	4561
26 Oct	2018	2022	2026	B8.4			4561
26 Oct	2155	2202	2204	B4.7			4561
27 Oct	0234	0248	0255	C1.1			4560
27 Oct	0320	0326	0329	B4.2			4561
27 Oct	0510	0518	0522	B3.9			4561
27 Oct	0926	0932	0934	B3.7			4561
27 Oct	1738	1746	1802	B4.2			4561
27 Oct	2112	2119	2126	B6.2			4561
28 Oct	0013	0023	0035	B5.4			4561
28 Oct	0143	0149	0153	B5.9			4561
28 Oct	0316	0323	0331	B7.9			4561
28 Oct	0438	0445	0450	B4.4			
28 Oct	0454	0459	0503	B6.0			4561
28 Oct	0600	0613	0624	C1.0			4561
28 Oct	0813	0839	0859	B8.4			

Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
28 Oct	1056	1109	1117	B6.3			4561
28 Oct	1238	1252	1303	B6.4			
30 Oct	1308	1322	1328	B7.3	SF	N06E52	4564
30 Oct	1554	1607	1619	B5.7			
30 Oct	2221	2238	2247	B5.1			
30 Oct	2320	2324	2327	B3.4			
30 Oct	2338	2342	2348	B3.6			
31 Oct	0105	0111	0116	B4.5			4564
31 Oct	0307	0321	0327	B3.2			4565
31 Oct	0608	0613	0621	B3.4			4564
31 Oct	0901	0914	0924	B6.3			
31 Oct	1513	1520	1525	B3.6			
31 Oct	1535	1542	1544	B3.8			4564
31 Oct	1905	1913	1931	B4.1			
31 Oct	1947	1955	2002	B5.9			
31 Oct	2032	2037	2044	B3.6			
31 Oct	2044	2051	2106	B4.0			
31 Oct	2220	2229	2234	B3.8			
31 Oct	2252	2308	2321	B4.4			
01 Nov	1229	1236	1239	C1.1			4564
01 Nov	1355	1401	1408	B5.2			
01 Nov	1832	1838	1840	B4.7	SF	N04E32	4564
01 Nov	1944	1956	2002	B3.4			

Region Summary

	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 4560												
18 Oct	N14E12	44	10	4	Cro	4	B								
19 Oct	N14W01	45	10	4	Dro	4	B								
20 Oct	N13W14	45	120	10	Dai	15	BG								
21 Oct	N13W28	45	150	12	Eai	19	BG	2			2				
22 Oct	N13W42	46	160	13	Eai	20	BG	3			3				
23 Oct	N13W58	48	180	14	Eai	22	BG	3			8				
24 Oct	N13W72	50	150	17	Fai	15	BG	1			1				
25 Oct	N13W84	48	150	16	Fao	12	B	1			1				
								10	0	0	15	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 45

			Region 4561												
26 Oct	S11W77	28	30	5	Dai	4	B	5			2				
27 Oct	S11W91	29	30	5	Dai	4	B								
								5	0	0	2	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 28

			Region 4562												
26 Oct	S17E49	262	10	1	Axx	1	A								
27 Oct	S17E34	264	10	1	Axx	1	A								
28 Oct	S17E20	265	plage												
29 Oct	S17E13	264	plage												
30 Oct	S17W01	263	plage												
31 Oct	S17W15	260	plage												
01 Nov	S17W29	261	plage												
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 263

			Region 4563												
28 Oct	S19W70	355	10	4	Bxo	2	B								
29 Oct	S18W81	353	10	1	Axx	1	A								
30 Oct	S19W94	353	10	1	Axx	1	A								
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 355

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 4564													
29 Oct	N05E68	204	10	1	Axx	1	A								
30 Oct	N04E56	203	30	5	Cro	4	B				1				
31 Oct	N04E44	202	20	7	Dro	3	B								
01 Nov	N04E29	203	20	8	Cro	9	B	1			1				
								1	0	0	2	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 203

		Region 4565													
30 Oct	N12E75	184	60	2	Hsx	1	A								
31 Oct	N13E63	183	40	3	Hsx	1	A								
01 Nov	N14E47	184	40	2	Hsx	1	A								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 184

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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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