Space Weather Highlights **SWPC PRF 2671**
02 November - 08 November 2026 **09 November 2026**

Solar activity reached Moderate (R1-Minor) levels following seven M-class flares, all originating from Region 4566 (S06, L=147, class/area Dkc/520 on 08 Nov). The largest of the period was an M3.5/2b that peaked at 05/1833 UTC. This event was accompanied by a Type II radio sweep (est. speed=609 km/s). The coinciding CME was determined to have a trajectory too far east to have any impacts at Earth. Additionally, 4566 produced the six following M-flares: an M1.2 at 07/1243 UTC, an M1.4 at 07/0717 UTC, an M1.9 at 07/1842 UTC, an M1.7/1f at 08/0746 UTC, an M1.1/1n at 08/1537 UTC, and an M1.1 at 08/1827 UTC. Region 4566 was also responsible for 75 of the 80 C-class flares during the period, with the largest registering a C8.9 at 08/0324 UTC. Region 4570 (S13, L=106, class/area Axx/010 on 07 Nov) added four C-flares and Region 4564 (N03, L=208, class/area Cro/030 on 05 Nov) contributed one.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at High levels every day of the period except 07 Nov, when it only reached Moderate levels. The peak value during the period was 4,631 pfu at 06/1720 UTC.

Geomagnetic field activity was mostly quiet on 03 and 05 Nov, quiet to unsettled on 02, 04, and 06 Nov, and reached G1 (Minor) storm levels on 07-08 Nov. The increased activity at the end of the week was attributed to the onset of a negative polarity CH HSS.

Space Weather Outlook
09 November - 05 December 2026

Solar activity is expected to be predominantly at low levels, with moderate levels likely and a slight chance of reaching high levels through 14 Nov when Region 4566 rotates off the visible disk. Barring development of any other substantial regions, conditions should then be at low levels, with a chance for moderate conditions through 28 Nov when Region 4566 is expected to return to the visible disk, bringing levels back to moderate again.

There is a slight chance proton levels could increase to S1 levels at geosynchronous orbit through 14 Nov as Region 4566 transits the visible disk, then again after it returns around 28 Nov.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at Moderate levels 15-18 Nov and 23-26 Nov, with High levels anticipated for 09-14 Nov, 19-22 Nov, and 27 Nov-05 Dec.

Geomagnetic field activity is expected to be at mostly quiet levels on 13-15 Nov, 20-25 Nov, and 29 Nov-03 Dec. Unsettled to active periods are likely on 09-12 Nov, 16-19 Nov, 26-28 Nov, and 04-05 Dec, with G1 levels likely on 17,18, 27, and 28 Nov, and again on 04-05 Dec. The

increased activity levels are attributed to CH HSS influences.

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 November	97	37	120	B2.5	0	0	0	1	0	0	0	0
03 November	100	41	180	B2.8	1	0	0	1	0	0	0	0
04 November	111	64	240	B4.9	3	0	0	4	0	0	0	0
05 November	124	89	450	B5.9	4	1	0	3	0	1	0	0
06 November	125	91	360	B7.7	23	0	0	7	0	0	0	0
07 November	127	93	450	B9.0	26	3	0	9	0	0	0	0
08 November	128	72	600	C1.0	28	3	0	13	4	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 November	1.5e+05	2.1e+04	1.7e+08
03 November	1.7e+05	2.0e+04	2.0e+08
04 November	2.7e+05	2.0e+04	6.5e+07
05 November	3.9e+05	2.0e+04	6.9e+07
06 November	1.4e+06	2.0e+04	7.8e+07
07 November	1.4e+06	1.9e+04	1.9e+07
08 November	4.8e+06	2.1e+04	4.0e+07

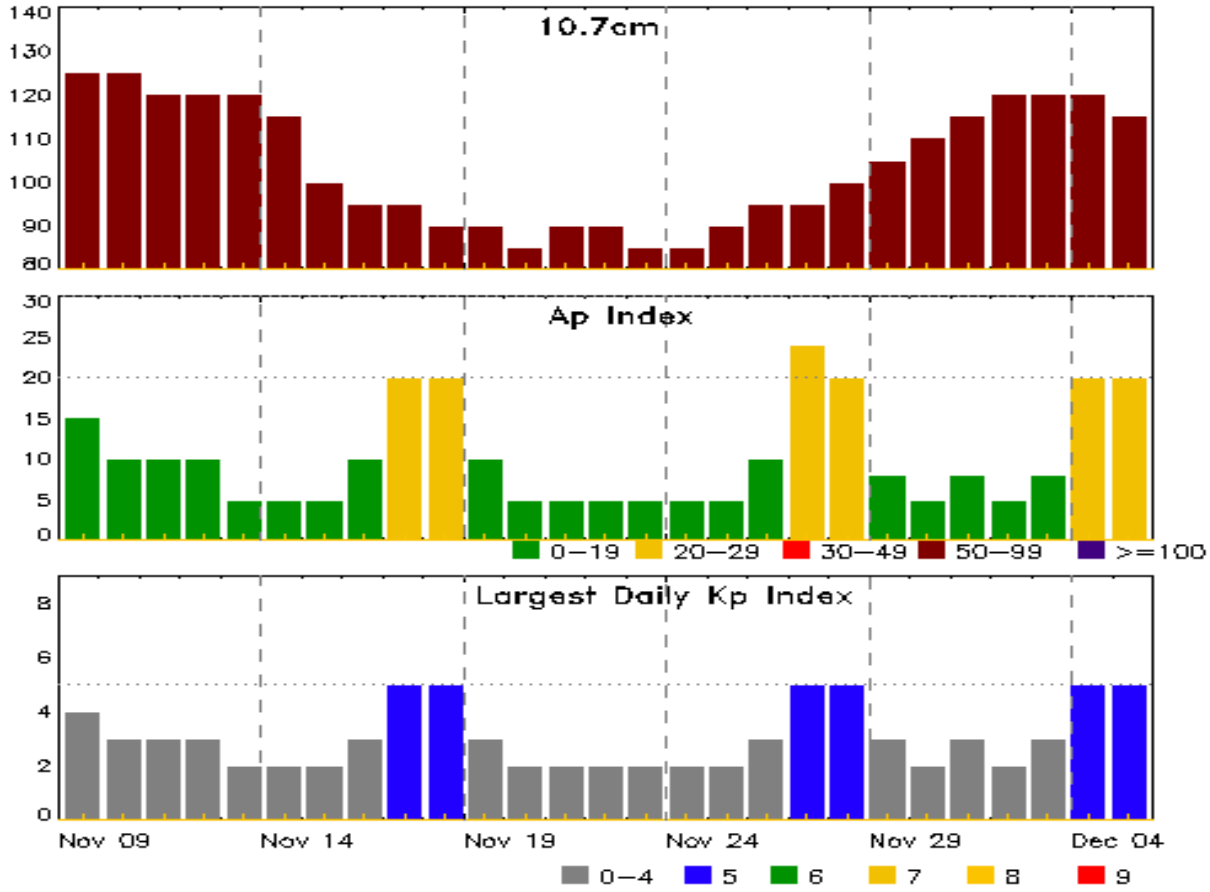
Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
02 November	6	1-2-3-2-2-1-1-0	14	0-2-5-5-2-0-0-0	7	1-2-3-2-2-2-1-0
03 November	0	0-0-0-0-0-0-0-0	0	0-0-0-0-0-0-0-0	5	1-2-2-2-1-1-2-1
04 November	0	0-0-0-0-0-0-0-0	0	0-0-0-0-0-0-0-0	10	2-3-3-2-3-1-2-1
05 November	7	0-0-0-0-0-0-2-2	0	0-0-0-0-0-0-0-0	6	1-2-2-1-1-1-2-2
06 November	8	2-0-2-3-2-1-2-3	13	1-0-3-5-3-2-2-2	9	2-1-3-2-2-2-2-3
07 November	13	2-1-3-3-3-2-4-3	23	1-1-3-4-5-3-5-4	22	3-2-3-3-3-3-5-4
08 November	17	5-3-3-3-2-3-3-2	32	5-3-4-5-5-4-4-3	48	5-3-3-3-3-3-4-3

Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
02 Nov 1203	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	01/1302
03 Nov 0502	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	01/1302
04 Nov 0819	WARNING: Geomagnetic K = 4	04/0819 - 1500
04 Nov 1447	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	01/1302
04 Nov 1904	WATCH: Geomagnetic Storm Category G1 predicted	
05 Nov 1254	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	01/1302
05 Nov 1745	WATCH: Geomagnetic Storm Category G1 predicted	
05 Nov 1857	ALERT: Type II Radio Emission	05/1828
06 Nov 1056	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	01/1302
07 Nov 0056	WARNING: Geomagnetic K = 4	07/0056 - 1200
07 Nov 0626	WATCH: Geomagnetic Storm Category G1 predicted	
07 Nov 1155	EXTENDED WARNING: Geomagnetic K = 4	07/0056 - 2359
07 Nov 1920	ALERT: Geomagnetic K = 4	07/1920
07 Nov 1935	WARNING: Geomagnetic K = 5	07/1935 - 08/2100
07 Nov 1940	EXTENDED WARNING: Geomagnetic K = 4	07/0056 - 08/2359
07 Nov 1945	ALERT: Geomagnetic K = 5	07/1945
08 Nov 0203	ALERT: Geomagnetic K = 5	08/0203
08 Nov 2324	ALERT: Electron 2MeV Integral Flux >= 1000pfu	08/2245

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 Nov	125	15	4	23 Nov	85	5	2
10	125	10	3	24	85	5	2
11	120	10	3	25	90	5	2
12	120	10	3	26	95	10	3
13	120	5	2	27	95	24	5
14	115	5	2	28	100	20	5
15	100	5	2	29	105	8	3
16	95	10	3	30	110	5	2
17	95	20	5	01 Dec	115	8	3
18	90	20	5	02	120	5	2
19	90	10	3	03	120	8	3
20	85	5	2	04	120	20	5
21	90	5	2	05	115	20	5
22	90	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
05 Nov	1821	1833	1841	M3.5	0.022	2B	S09E35	4566			2	
07 Nov	1226	1243	1248	M1.2	0.009			4566				
07 Nov	1711	1717	1724	M1.4	0.007			4566				
07 Nov	1821	1842	1856	M1.9	0.022			4566				
08 Nov	0733	0746	0754	M1.7	0.012	1F	S08W03	4566				
08 Nov	1529	1537	1549	M1.1	0.010	1N	S07W01	4566				
08 Nov	1815	1827	1835	M1.1	0.008			4566				

Flare List

	Time			Optical			
Date	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
02 Nov	0556	0608	0618	B7.7			4566
02 Nov	1032	1040	1055	B3.4			4566
02 Nov	1637	1644	1651	B4.2			4566
02 Nov	2056	2104	2111	B5.6			4565
02 Nov	2159	2208	2217	B8.0	SF	S05E76	4566
03 Nov	0608	0615	0619	B4.8			4566
03 Nov	0630	0644	0702	B5.1			4564
03 Nov	0920	0924	0929	B3.6			4566
03 Nov	1634	1640	1644	B4.2			4566
03 Nov	1719	1732	1728		SF	S05E60	4566
03 Nov	1823	1828	1832	B4.7			4566
03 Nov	1921	1925	1929	B4.6			4566
03 Nov	2232	2239	2244	C1.1			4566
04 Nov	0643	0654	0702	C1.2			4566
04 Nov	1450	1500	1509	B9.7			4564
04 Nov	1723	1734	1738	C2.2			
04 Nov	1812	1814	1815		SF	N17W40	
04 Nov	1906	1909	1918		SF	S06E49	4566
04 Nov	1944	1948	1953		SF	S07E47	4566
04 Nov	2015	2026	2029		SF	S06E44	4566
04 Nov	2216	2223	2227	B6.5			4566
04 Nov	2257	2307	2314	C1.3			
05 Nov	0004	0013	0015	B9.4			
05 Nov	0213	0218	0221	B9.1			4566

Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
05 Nov	0509	0518	0521	B9.7			
05 Nov	0610	0612	0615	B9.1			
05 Nov	1653	1700	1721	C1.1	SF	S08E38	4566
05 Nov	1811	1832	1920	M3.5	2B	S09E35	4566
05 Nov	1905	1913	1921		SF	N14W03	4565
05 Nov	2124	2134	2137	C2.9			
05 Nov	2150	2151	2153		SF	S07E37	4566
05 Nov	2212	2221	2224	C1.2			
05 Nov	2224	2231	2234	C1.3			
06 Nov	0017	0024	0027	C2.5	SF	S10E73	4570
06 Nov	0230	0251	0315	C5.6			4570
06 Nov	0451	0458	0500	C1.8			4570
06 Nov	0700	0709	0718	C1.3			
06 Nov	0754	0800	0802	C4.0	SF	S06E30	4566
06 Nov	0818	0836	0845	C2.6			4570
06 Nov	1056	1103	1106	C2.2			4566
06 Nov	1206	1212	1221	C1.1			4566
06 Nov	1240	1243	1253	C1.2			4566
06 Nov	1341	1347	1351	C2.9	SF	S06E27	4566
06 Nov	1419	1420	1424		SF	S07E26	4566
06 Nov	1451	1457	1509		SF	S06E27	4566
06 Nov	1519	1524	1527	C3.7			4566
06 Nov	1553	1558	1605	C2.5			4566
06 Nov	1742	1746	1749	C1.5			4566
06 Nov	1820	1829	1832	C3.1	SF	S06E24	4566
06 Nov	1841	1845	1857	C1.7			4566
06 Nov	1957	2003	2015	C2.0			4566
06 Nov	2016	2022	2027	C2.0			4566
06 Nov	2138	2141	2149	C2.9			4566
06 Nov	2218	2224	2227	C1.6			4566
06 Nov	2227	2233	2237	C3.4			4566
06 Nov	2247	2251	2254	C2.2			4566
06 Nov	2254	2302	2307	C4.1	SF	S06E22	4566
06 Nov	2321	2326	2332	C4.6			4566
07 Nov	0023	0028	0032	C1.4			4566
07 Nov	0047	0053	0059	C5.9	SF	S06E22	4566
07 Nov	0151	0202	0206	C2.8			4566
07 Nov	B0201	U0216	0219	C3.0	SF	S05E19	4566

Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
07 Nov	0241	0244	0251	C2.3	SF	S05E17	4566
07 Nov	0315	0323	0327	C2.9	SF	S07E19	4566
07 Nov	0330	0336	0340	C4.9	SF	S07E19	4566
07 Nov	0359	0359	0404		SF	S07E19	4566
07 Nov	0517	0526	0530	C1.5			4566
07 Nov	0546	0550	0552	C1.9			4566
07 Nov	0614	0619	0626	C1.4			4566
07 Nov	0626	0636	0638	C1.3			4566
07 Nov	0713	0735	0745	C5.5	SF	S07E14	4566
07 Nov	0812	0823	0828	C4.2	SF	S06E17	4566
07 Nov	1151	1157	1205	C6.2			4566
07 Nov	1226	1243	1248	M1.2			4566
07 Nov	1327	1341	1345	C1.6			4566
07 Nov	1406	1412	1417	C1.3			4566
07 Nov	1425	1430	1435	C1.1			4566
07 Nov	1438	1446	1452	C1.8			4566
07 Nov	1520	1524	1527	C1.6			4566
07 Nov	1538	1545	1549	C1.1			4566
07 Nov	1621	1631	1635	C1.3			4566
07 Nov	1635	1650	1656	C4.9			4566
07 Nov	1711	1717	1724	M1.4			4566
07 Nov	1821	1842	1856	M1.9			4566
07 Nov	2013	2024	2027	C2.8			4566
07 Nov	2027	2041	2051	C3.7			4566
07 Nov	2142	2159	2212	C5.9			4566
07 Nov	2323	2331	2339	C2.5	SF	S06E03	4566
08 Nov	0041	0049	0101	C3.9	SF	S08E07	4566
08 Nov	0101	0107	0119	C4.4			4566
08 Nov	0102	0106	0108		SF	S08E07	4566
08 Nov	0132	0139	0147	C2.3			4566
08 Nov	0209	0217	0227	C3.0			4566
08 Nov	0227	0235	0237	C2.9	SF	S08E07	4566
08 Nov	0313	0324	0337	C8.9	SF	S08E06	4566
08 Nov	0414	0418	0421	C3.7	SF	S08E06	4566
08 Nov	0542	0549	0600	C2.7	SF	S08E06	4566
08 Nov	0600	0604	0607	C2.3			4566
08 Nov	0625	0636	0644	C2.9	SF	S07E04	4566
08 Nov	0733	0746	0754	M1.7	1F	S08W03	4566

Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
08 Nov	0837	0843	0847	C8.0	SF	S08E03	4566
08 Nov	0909	0913	0917	C2.1			4566
08 Nov	0940	0947	1004	C1.5			4566
08 Nov	1004	1007	1015	C2.1			4566
08 Nov	1119	1127	1138	C2.7			4566
08 Nov	1138	1144	1148	C2.8			4566
08 Nov	1303	1310	1316	C1.3			4566
08 Nov	1335	1343	1347	C1.2			4566
08 Nov	1414	1421	1429	C1.8			4566
08 Nov	1429	1433	1436	C2.0			4566
08 Nov	1431	1431	1434		SF	S07W01	4566
08 Nov	1506	1534	1619	M1.1	1N	S07W01	4566
08 Nov	1627	1632	1637	C1.2			4566
08 Nov	1639	1641	1644		SF	S07W01	4566
08 Nov	1720	1726	1726		SF	S07W01	4566
08 Nov	1727	1733	1737		SF	S07W01	4566
08 Nov	1800	1829	1904	C1.8	1N	S07W01	4566
08 Nov	1815	1827	1835	M1.1			4566
08 Nov	1910	1922	1933	C1.5			4566
08 Nov	2037	2038	2122		1N	S07W07	4566
08 Nov	2039	2053	2101	C8.0			4566
08 Nov	2149	2153	2156	C1.2			4566
08 Nov	2156	2202	2205	C1.3			4566
08 Nov	2213	2215	2221		SF	S07W06	4566
08 Nov	2257	2301	2306	C1.7			4566
08 Nov	2324	2338	0003	C1.3			4566

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 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												
02 Nov	S17W43	262	plage												
03 Nov	S17W57	263	plage												
04 Nov	S17W71	264	plage												
05 Nov	S17W85	265	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 263

		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				
02 Nov	N03E11	208	20	2	Hrx	2	A								
03 Nov	N03W02	208	10	2	Axx	2	A								
04 Nov	N03W14	207	30	4	Dro	5	B								
05 Nov	N03W28	208	30	6	Cro	6	B								
06 Nov	N01W40	206	plage												
07 Nov	N01W55	208	plage												
08 Nov	N01W68	208	plage												
								1	0	0	2	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 208

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 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								
02 Nov	N13E35	184	70	2	Hsx	1	A								
03 Nov	N14E20	186	70	2	Hsx	1	A								
04 Nov	N15E08	185	80	4	Dsi	5	B								
05 Nov	N14W07	187	70	5	Cso	6	B				1				
06 Nov	N13W18	184	50	4	Cso	3	B								
07 Nov	N13W31	184	50	3	Hsx	1	A								
08 Nov	N12W46	186	60	2	Hsx	1	A								
								0	0	0	1	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 187

		Region 4566													
02 Nov	S07E66	153	30	9	Cro	4	B				1				
03 Nov	S06E53	153	100	16	Fao	8	BGD	1			1				
04 Nov	S06E40	153	120	16	Fai	12	BGD	1			3				
05 Nov	S06E28	152	300	18	Fki	15	BGD	1	1		2		1		
06 Nov	S06E19	147	240	10	Dac	22	BGD	18			6				
07 Nov	S06E06	147	360	10	Dkc	28	BGD	26	3		9				
08 Nov	S06W07	147	520	9	Dkc	27	BGD	28	3		13	4			
								75	7	0	35	4	1	0	0

Still on Disk.
Absolute heliographic longitude: 147

		Region 4567													
04 Nov	N17W41	234	10	2	Cro	2	B								
05 Nov	N18W57	237	40	3	Dso	4	B								
06 Nov	N18W70	236	40	3	Cso	3	B								
07 Nov	N18W83	236	10	1	Hrx	1	A								
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 234

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 4568													
05 Nov	S08E53	127	10	5	Bxi	8	B								
06 Nov	S08E40	126	10	1	Hrx	1	A								
07 Nov	S09E25	128	10	1	Axx	1	A								
08 Nov	S08E13	127	10	3	Bxo	2	B								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 127

		Region 4569													
06 Nov	S06E07	159	10	1	Axx	1	A								
07 Nov	S06W07	160	10	1	Axx	1	A								
								0	0	0	0	0	0	0	0

Died on Disk.
Absolute heliographic longitude: 159

		Region 4570													
06 Nov	S13E59	107	10	1	Axx	1	A	4							
07 Nov	S13E47	106	10	6	Axx	1	A								
08 Nov	S13E33	107	plage												
								4	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 107

		Region 4571													
08 Nov	S15W53	192	10	4	Cro	2	B								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 192

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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