

Solar activity ranged from low to high levels with Region 2205 (N15, L=011, class/area Ekc/410 on 07 Nov) responsible for the majority of the activity during the period.

The period began with high levels as Region 2205 produced an M2 x-ray event at 03/1153 UTC with an associated Type II sweep (517 km/s) followed by an M6/1f flare at 03/2240 UTC with another Type II sweep (601 km/s). 04 November saw activity decreased to moderate levels with a pair of M2 flares from Region 2205 at 04/0838 UTC and 04/0904 UTC respectively. On 05 November, high levels were observed as Region 2205 produced an M7/1n flare at 05/0947 UTC with an associated Castelli-U radio signature to include a 240 sfu Tenflare. Later in the day, the region produced a long duration (LDE) M2/1n flare at 05/1944 UTC with an associated Type II sweep (1291 km/s).

High levels continued on 06 November with Region 2205 producing an M5/1n flare at 06/0346 UTC with associated Type II (732 km/s) and Type IV sweeps. The region also produced an M3/2n flare at 06/0139 UTC and an M2/1n flare at 2216 UTC with an associated 200 sfu Tenflare.

High levels were observed on 07 November which began with an M2/2n LDE from Region 2205 at 07/0249 UTC followed by an M2 x-ray event at 07/0425 UTC and an M1/Sf at 07/1022 UTC. Later on the 7th, the region produced an X1 x-ray event at 07/1726 UTC with associated Type II (602 km/s) and Type IV sweeps. Also associated with this event was a partial-halo coronal mass ejection (CME) first observed in SOHO/LASCO imagery at 07/1808 UTC. Subsequent WSA/Enlil model output suggested a glancing blow Earth impact early to midday on 10 November.

Low levels were observed on 08 November with numerous low-level C-class flares observed from Region 2205, 2201 (S04, L=089, class/area Dai/070 on 06 Nov) and 2203 (N12, L=115, class/area Dao/200 on 03 Nov). The summary period ended on 09 November with a return to moderate levels as Region 2205 produced an M2/1b flare at 09/1532 UTC

No proton events were observed at geosynchronous orbit. However, flux levels began the period enhanced due to the Hyder flare observed early on 01 November. The period began with flux levels at 7 pfu and finally declined to background levels early on 05 November.

The greater than 2 MeV electron flux at geosynchronous orbit was at moderate levels on 03 and 04 November and normal levels on 05-09 November.

Geomagnetic field activity ranged from quiet to active levels. Quiet to unsettled levels were observed on 03 and 06-09 November while quiet to active levels occurred on 04-05 November. Activity levels were dominated by numerous solar sector boundary changes (SSBC) and persistent periods of -Bz. No discernible transient or coronal hole high speed stream (CH HSS) influences were observed during the period. The ACE satellite observed solar wind speeds that ranged from a low of about 375 km/s late on 03 November to a high near 600 km/s late on 05



November. The interplanetary magnetic field (Bt) recorded a variable field that ranged from a low of 1 nT early on 03 November to a peak of 14 nT midday on the 4th. The Bz component generally ranged from +/- 5 nT or less. Increased Bz variability was observed from about 04/0015 UTC - 05/0845 UTC (+8 nT to -12 nT), 07/1738 UTC - 07/2106 UTC (+9 nT to -8 nT) and again from 09/1452 UTC - 09/2359 UTC (+/-10 nT).

The phi angle reflected a mostly negative (towards) orientation through the period. Intermittent changes in orientation from a negative to a positive (away) sector were observed from 03/0027 UTC - 03/1101 UTC, 04/0626 UTC - 05/1316 UTC, 07/0025 UTC - 07/0911 UTC and 09/2233 UTC - 09/2359 UTC.

Space Weather Outlook 10 November - 06 December 2014

Solar activity is expected to be at predominately low to moderate levels with isolated high activity from 10 - 23 November and again from 29 November - 06 December. This forecasted activity is due to Region 2205, currently on the visible disk through 17 November and the return of old Region 2192 (S12, L=248) due to return late on 11 November. Mostly low level activity is expected for the remainder of the outlook period from 24 - 28 November.

A slight chance for a greater than 10 MeV proton event at geosynchronous orbit exist for a majority of the period with the exception of 24 - 28 November due to potential significant flare activity from Region 2205 and the return of old Region 2192.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal to moderate levels from 10 - 13 November and again from 02 - 06 December. Moderate to high levels are expected from 14 November - 01 December.

Geomagnetic field activity is expected to be at active to major storm levels on 10 - 11 November due to influences from the 07 November CME and negative polarity CH HSS effects. From 12 - 24 November and again from 03 - 06 December, quiet to unsettled levels with isolated active periods are expected due to a combination of CH HSS and SSBC effects. Mostly quiet conditions are expected on 25 November - 02 December.



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
03 November	125	93	330	B5.1	5	2	0	5	2	0	0	0
04 November	129	99	300	B7.4	3	2	0	14	1	0	0	0
05 November	135	113	470	B7.4	4	2	0	14	2	0	0	0
06 November	136	107	580	B9.9	4	3	0	9	2	1	0	0
07 November	146	96	510	B9.6	6	3	1	7	0	1	1	0
08 November	132	92	400	B6.9	8	0	0	11	0	0	0	0
09 November	132	78	420	B7.1	9	1	0	31	2	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	>100 MeV	>0.6 MeV	>2MeV	>4 MeV
	03 November	1.2e+07	2.3e+05	2.5e+03		1.8e+07
04 November	8.3e+06	4.7e+04	2.4e+03		4.6e+06	
05 November	2.2e+06	1.6e+04	2.4e+03		6.7e+05	
06 November	1.0e+06	1.1e+04	2.4e+03		2.3e+06	
07 November	4.1e+05	1.1e+04	2.5e+03		1.6e+06	
08 November	1.0e+05	1.0e+04	2.5e+03		6.9e+05	
09 November	2.1e+05	1.2e+04	2.8e+03		1.4e+06	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	03 November	5	2-1-2-1-2-1-0-2	2	1-0-2-1-0-0-0-1	6
04 November	12	1-1-2-3-4-2-3-3	35	0-0-4-6-6-5-4-3	21	2-1-3-4-4-3-4-4
05 November	13	4-3-2-3-3-2-2-2	18	3-3-2-5-4-3-2-2	16	4-4-3-4-3-2-3-3
06 November	0	1-2-2-1-2-2-3-0	9	2-2-3-1-4-1-1-1	9	2-2-2-2-2-1-2-3
07 November	10	0-0-0-0-1-3-2-3	13	2-2-4-4-4-1-1-1	12	3-3-2-3-2-2-2-3
08 November	8	1-1-2-2-3-2-1-3	6	1-0-2-3-3-2-0-1	8	2-1-2-2-2-2-1-3
09 November	8	3-2-2-1-2-2-2-2	7	3-2-3-1-1-2-1-1	9	3-2-2-1-1-2-2-3



Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
03 Nov 0431	ALERT: Type II Radio Emission	03/0348
03 Nov 1222	ALERT: Type II Radio Emission	03/1146
03 Nov 1503	CANCELLATION: Proton 10MeV Integral Flux > 10pfu	
03 Nov 2237	ALERT: X-ray Flux exceeded M5	03/2237
03 Nov 2254	SUMMARY: 10cm Radio Burst	03/2230 - 2239
03 Nov 2258	SUMMARY: X-ray Event exceeded M5	03/2215 - 2253
03 Nov 2317	ALERT: Type II Radio Emission	03/2233
04 Nov 0142	ALERT: Type II Radio Emission	03/2233
04 Nov 0814	WARNING: Geomagnetic K = 4	04/0815 - 1600
04 Nov 1122	ALERT: Geomagnetic K = 4	04/1120
04 Nov 1339	WARNING: Geomagnetic K = 5	04/1340 - 1900
04 Nov 1339	EXTENDED WARNING: Geomagnetic K = 4	04/0815 - 05/0100
04 Nov 2211	WARNING: Geomagnetic K = 5	04/2211 - 05/0000
05 Nov 0054	EXTENDED WARNING: Geomagnetic K = 4	04/0815 - 05/0700
05 Nov 0626	EXTENDED WARNING: Geomagnetic K = 4	04/0815 - 05/1600
05 Nov 0850	ALERT: Type II Radio Emission	05/0721
05 Nov 0946	ALERT: X-ray Flux exceeded M5	05/0944
05 Nov 0957	SUMMARY: 10cm Radio Burst	05/0940 - 0946
05 Nov 1004	SUMMARY: X-ray Event exceeded M5	05/0926 - 0955
05 Nov 1015	ALERT: Type II Radio Emission	05/0943
05 Nov 1555	EXTENDED WARNING: Geomagnetic K = 4	04/0815 - 06/0100
05 Nov 2023	ALERT: Type II Radio Emission	05/1945
06 Nov 0345	ALERT: X-ray Flux exceeded M5	06/0343
06 Nov 0407	SUMMARY: X-ray Event exceeded M5	06/0332 - 0402
06 Nov 0408	ALERT: Type II Radio Emission	06/0346
06 Nov 0413	ALERT: Type IV Radio Emission	06/0356
06 Nov 2229	SUMMARY: 10cm Radio Burst	06/2206 - 2209
07 Nov 0214	WARNING: Geomagnetic K = 4	07/0215 - 1400

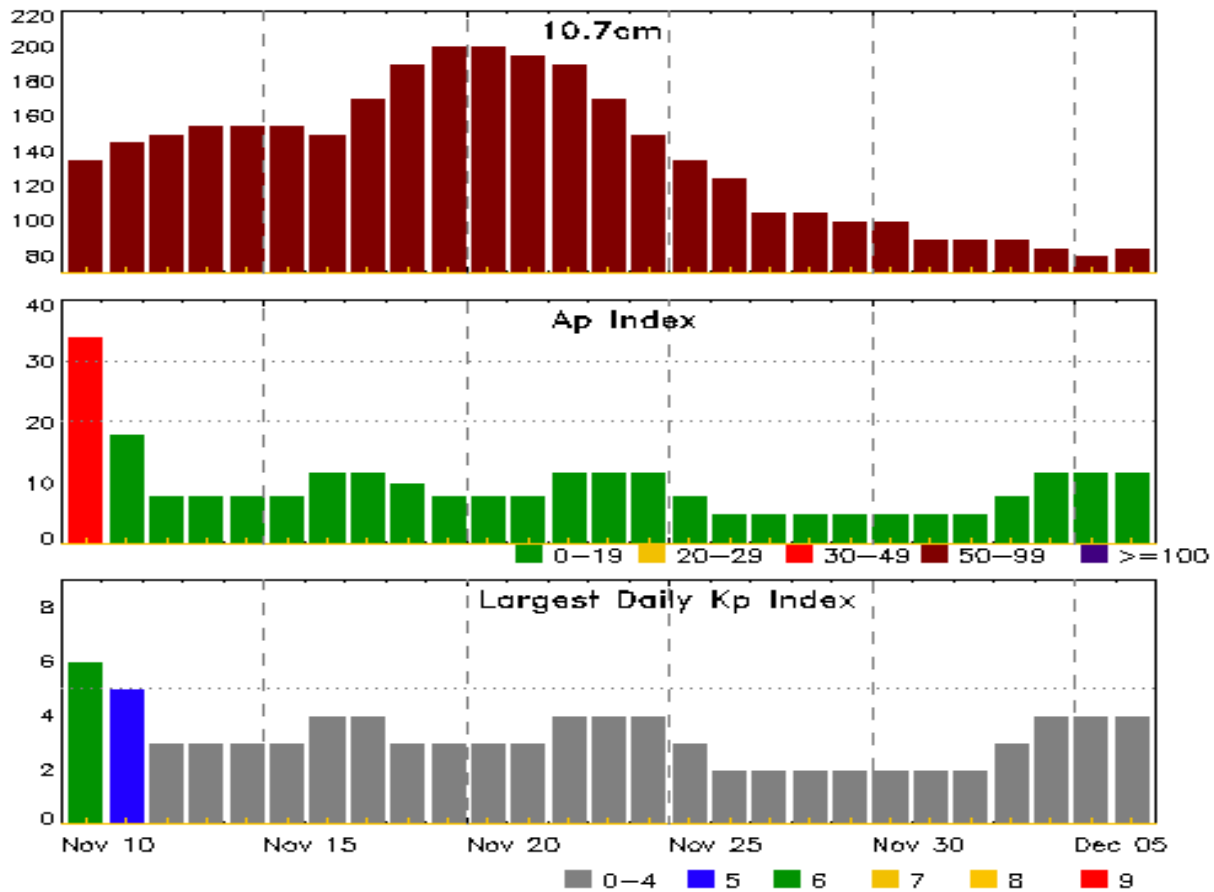


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
07 Nov 1717	ALERT: X-ray Flux exceeded M5	07/1715
07 Nov 1739	SUMMARY: X-ray Event exceeded X1	07/1653 - 1734
07 Nov 1756	ALERT: Type II Radio Emission	07/1719
07 Nov 1756	ALERT: Type IV Radio Emission	07/1735
07 Nov 1817	SUMMARY: 10cm Radio Burst	07/1749 - 1800
07 Nov 2249	WARNING: Geomagnetic K = 4	07/2250 - 08/1400
08 Nov 0031	ALERT: Type II Radio Emission	07/2352
08 Nov 1039	WATCH: Geomagnetic Storm Category G2 predicted	
09 Nov 0005	WARNING: Geomagnetic K = 4	09/0305 - 1400
09 Nov 0843	WATCH: Geomagnetic Storm Category G1 predicted	
09 Nov 2305	WARNING: Geomagnetic K = 4	09/2305 - 10/1400



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
10 Nov	135	34	6	24 Nov	150	12	4
11	145	18	5	25	135	8	3
12	150	8	3	26	125	5	2
13	155	8	3	27	105	5	2
14	155	8	3	28	105	5	2
15	155	8	3	29	100	5	2
16	150	12	4	30	100	5	2
17	170	12	4	01 Dec	90	5	2
18	190	10	3	02	90	5	2
19	200	8	3	03	90	8	3
20	200	8	3	04	85	12	4
21	195	8	3	05	80	12	4
22	190	12	4	06	85	12	4
23	170	12	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		Intensity	
									245	2695	II	IV
03 Nov	1123	1153	1217	M2.2	0.042			2205				2
03 Nov	2215	2240	2253	M6.5	0.066	1F	N15E90	2205		180		1
04 Nov	0759	0838	0851	M2.6	0.071	SF	N15E82	2205				
04 Nov	0852	0904	0913	M2.3	0.029	1F	N15E82	2205				
05 Nov	0926	0947	0955	M7.9	0.052	1N	N20E68	2205	8900	240		2
05 Nov	1850	1944	2015	M2.9	0.078	1N	N17E65	2205				1
06 Nov	0129	0139	0154	M3.2	0.030	2N	N15E58	2205				
06 Nov	0332	0346	0402	M5.4	0.071	1N	N17E58	2205				1
06 Nov	2153	2216	2234	M2.5	0.033	1N	N14E45	2205	190	200		
07 Nov	0205	0249	0332	M2.7	0.076	2N	N17E50	2205	240			
07 Nov	0412	0425	0438	M2.0	0.026			2205				
07 Nov	1013	1022	1030	M1.0	0.007	SF	N15E43	2205				
07 Nov	1653	1726	1734	X1.6	0.150			2205	960	72	2	1
09 Nov	1524	1532	1538	M2.3	0.011	1B	N18E14	2205				

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical		Rgn #
	Begin	Max	End			Location Lat CMD		
03 Nov	0347	0352	0356	C4.2	1N	S03E21		2201
03 Nov	0450	0454	0456	C1.4	SF	S03E18		2201
03 Nov	0705	0706	0710		SF	S03E17		2201
03 Nov	0820	0821	0823		SF	N11W09		2203
03 Nov	0821	0821	0823		SF	S02E21		2201
03 Nov	1123	1153	1217	M2.2				2205
03 Nov	1221	U1230	A1253		SF	S01E18		2201
03 Nov	1454	1456	1502		SF	N07W30		2202
03 Nov	1814	1822	1827	C1.3				2201
03 Nov	1910	1916	1921	C1.7				2205
03 Nov	2048	2101	2117	C1.9				2205
03 Nov	2215	2240	2253	M6.5	1F	N15E90		2205
04 Nov	0055	0059	0105		SN	N16E89		2205
04 Nov	0247	0250	0253		SF	N14E88		2205
04 Nov	0331	0333	0335		SF	N17E85		2205
04 Nov	0409	0418	0423	C2.1				2205
04 Nov	0435	0450	0452		SF	N15E82		2205



Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical	
	Begin	Max	End			Location Lat CMD	Rgn #
04 Nov	0508	0510	0516		SF	N12E79	2205
04 Nov	0519	0534	0540		SF	N16E84	2205
04 Nov	0549	0551	0554		SF	S11W69	2197
04 Nov	0557	0559	0605		SF	N16E81	2205
04 Nov	0621	0625	0627		SF	N16E81	2205
04 Nov	0707	0711	0715	C1.5	SF	N18E86	2205
04 Nov	0759	0838	0851	M2.6	SF	N15E82	2205
04 Nov	0842	0918	0935	M2.3	1F	N15E82	2205
04 Nov	1011	1011	1015		SF	N18E85	2205
04 Nov	1039	1040	1045		SF	N18E85	2205
04 Nov	1734	1740	1746	C1.1			
04 Nov	2311	2315	2317		SF	N15E78	2205
05 Nov	0412	0419	0419		SF	N17E76	2205
05 Nov	0430	0432	0442		SF	N17E76	2205
05 Nov	0510	0514	0519	C1.0	SF	N17E76	2205
05 Nov	0639	0640	0651		SF	N16E71	2205
05 Nov	B0905	U0905	A0908		SF	S04W07	2201
05 Nov	0926	0947	0955	M7.9	1N	N20E68	2205
05 Nov	B1145	U1151	A1154		SF	N18E66	2205
05 Nov	B1337	U1345	A1347		SF	N18E65	2205
05 Nov	1424	1428	1431	C2.1			
05 Nov	1614	1621	1628	C1.7	SF	N18E67	2205
05 Nov	1817	1819	1823		SF	N17E66	2205
05 Nov	1830	1833	1837	C2.5	SF	N17E65	2205
05 Nov	1842	1843	1845		SF	N17E65	2205
05 Nov	1850	1944	2015	M2.9	1N	N17E65	2205
05 Nov	2045	2046	2049		SF	N17E64	2205
05 Nov	2139	2140	2148		SF	S04W16	2201
05 Nov	2316	2325	2350		SF	N16E70	2205
06 Nov	0021	0021	0024		SF	N15E59	2205
06 Nov	0044	0051	0057	C3.3	SF	N14E58	2205
06 Nov	0110	0114	0116		SF	N14E58	2205
06 Nov	0129	0139	0154	M3.2	2N	N15E58	2205
06 Nov	0329	0350	0512	M5.4	1N	N17E58	2205
06 Nov	0513	0516	0520		SF	N17E58	2205
06 Nov	0521	0522	0540		SF	N17E58	2205
06 Nov	0832	0835	0837		SF	N17E55	2205
06 Nov	0940	0942	0958		SF	N07W04	2204



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
06 Nov	1417	1424	1433	C3.8			2205
06 Nov	1914	1920	1928		SF	N16E51	2205
06 Nov	2011	2014	2016	C1.1			
06 Nov	2153	2216	2234	M2.5	1N	N14E45	2205
06 Nov	2306	2334	2338	C6.4	SF	N16E47	2205
07 Nov	0018	0018	0021		SF	N17E49	2205
07 Nov	0201	0244	0551	M2.7	2N	N17E50	2205
07 Nov	0412	0425	0438	M2.0			2205
07 Nov	0552	0600	0604		SF	N17E50	2205
07 Nov	0901	0905	0914		SF	N16E44	2205
07 Nov	0916	0916	0921		SF	N16E44	2205
07 Nov	0943	1001	A1024	M1.0	SF	N15E43	2205
07 Nov	1203	1206	1208	C3.9			2205
07 Nov	1319	1324	1331	C1.3			2201
07 Nov	1355	1359	1405	C2.3	SF	N16E42	2205
07 Nov	1451	1516	1557	C7.0	3B	N17E40	2205
07 Nov	1610	1639	1645	C7.0			2205
07 Nov	1653	1726	1734	X1.6			2205
07 Nov	2221	2226	2234		SF	N16E39	2205
07 Nov	2345	2348	2352	C1.4			2205
08 Nov	0502	0506	0510	C1.1			
08 Nov	0636	0650	0653	C1.1	SF	N14E33	2205
08 Nov	1419	1557	1609	C3.6	SF	N14E27	2205
08 Nov	1644	1755	1821	C4.4			2205
08 Nov	1647	1647	1658		SF	N15E21	2205
08 Nov	1739	1749	1823		SF	N15E23	2205
08 Nov	1823	1825	1833		SF	N15E23	2205
08 Nov	1836	1839	1840		SF	N15E23	2205
08 Nov	1853	1859	1903	C2.2	SF	S06W57	2201
08 Nov	1907	1909	1913		SF	N15E24	2205
08 Nov	1954	1959	2003	C1.7	SF	N15W76	2203
08 Nov	2147	2154	2205	C1.4			2205
08 Nov	2228	2228	2230		SF	N16E26	2205
08 Nov	2247	2251	2259	C1.5			2203
08 Nov	2344	2348	2351		SF	N17W74	2203
09 Nov	0041	0043	0051		SF	N17W74	2203
09 Nov	0153	0153	0158		SF	N16W75	2203
09 Nov	0203	0205	0206		SF	N16W75	2203



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
09 Nov	0235	0238	0252		SF	S11E46	2203
09 Nov	0237	0237	0244		SF	N17W75	2203
09 Nov	0249	0255	0304		SF	N16W73	2203
09 Nov	0303	0309	0321	C4.4	SF	N14E19	2205
09 Nov	0333	0336	0337		SF	N14E25	2205
09 Nov	0428	0431	0436		SF	N16W76	2203
09 Nov	0438	0443	0455		SF	N16W76	2203
09 Nov	0510	0513	0517		SF	N16W76	2203
09 Nov	0542	0547	0557		SF	N16W76	2203
09 Nov	0559	0604	0622		SF	N16E19	2205
09 Nov	0603	0603	0625		SF	N17W78	2203
09 Nov	0714	0720	0726	C4.4	1N	N18E19	2205
09 Nov	0801	0802	0806		SF	N16W79	2203
09 Nov	0827	0831	0839		SF	N16W79	2203
09 Nov	0929	0929	0936		SF	N14E18	2205
09 Nov	B0948	U0957	A1013		SF	N15E15	2205
09 Nov	B1029	U1031	A1054		SF	N14E13	2205
09 Nov	1042	U1043	1048		SF	N13W75	2203
09 Nov	1202	1224	1237	C2.5	SF	N14E13	2205
09 Nov	1335	1342	1350	C4.0	SN	N16E16	2205
09 Nov	1524	1532	1538	M2.3	1B	N18E14	2205
09 Nov	1658	1705	1707		SF	N15E86	2203
09 Nov	1803	1808	1828	C1.5	SF	N15W80	2203
09 Nov	1853	1855	1904		SF	N15W81	2203
09 Nov	2002	2006	2010	C1.6	SF	N15W81	2203
09 Nov	2035	2042	2048	C1.6	SF	N15W83	2203
09 Nov	2052	2053	2056		SF	N15W83	2203
09 Nov	2122	2123	2124		SF	N13E05	2205
09 Nov	2207	2214	2217	C3.3	SN	N14E05	2205
09 Nov	2221	2224	2226	C2.6			2205
09 Nov	2247	2302	2320		SF	N15E08	2205



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 2195																				
22 Oct	N08E70	184	60	4	Dso	3	B													
23 Oct	N07E59	181	70	10	Dso	7	B													
24 Oct	N08E47	180	70	10	Cso	6	B					1								
25 Oct	N08E33	182	90	10	Dai	7	B					2								
26 Oct	N08E21	181	100	11	Esi	10	B													
27 Oct	N07E04	184	80	12	Csi	9	B													
28 Oct	N08W07	182	50	8	Cso	5	B					1								
29 Oct	N08W21	182	50	5	Cso	3	B													
30 Oct	N08W35	184	50	2	Hax	1	A													
31 Oct	N07W50	185	40	1	Hax	1	A													
01 Nov	N07W63	185	30	1	Hax	1	A													
02 Nov	N07W76	185	20	1	Hrx	1	A													
03 Nov	N07W90	185	10	1	Axx	1	A													
												0	0	0	4	0	0	0	0	

Crossed West Limb.
 Absolute heliographic longitude: 184

Region 2196																				
24 Oct	S03E66	161	20	1	Hsx	1	A													
25 Oct	S04E53	161	20	1	Hax	1	A					1								
26 Oct	S03E40	162	20	1	Hax	1	A													
27 Oct	S04E26	162	10	1	Hax	1	A													
28 Oct	S03E12	162	10	1	Axx	1	A													
29 Oct	S03W00	161	10	1	Axx	1	A													
30 Oct	S04W12	161	10	1	Axx	1	A													
31 Oct	S05W24	159	10	5	Axx	1	A													
01 Nov	S05W37	159	plage																	
02 Nov	S05W52	161	plage																	
03 Nov	S05W67	163	plage																	
04 Nov	S05W82	165	plage																	
												0	0	0	1	0	0	0	0	

Crossed West Limb.
 Absolute heliographic longitude: 161



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 2197																							
24 Oct	S12E62	164	10			Axx	1	A					1										
25 Oct	S12E48	167	10	1		Axx	1	A					1										
26 Oct	S12E38	164	30	5		Dro	4	B															
27 Oct	S13E25	163	20	7		Cri	7	B															
28 Oct	S12E10	164	10	8		Bxo	5	B															
29 Oct	S13E01	161	30	6		Cso	4	B					1										
30 Oct	S12W16	165	10	1		Axx	1	A															
31 Oct	S12W24	159	plage																				
01 Nov	S12W38	161	plage																				
02 Nov	S12W52	161	plage																				
03 Nov	S12W66	162	plage																				
04 Nov	S13W78	160	20	1		Hax	2	A					1										
05 Nov	S13W91	160	30	1		Hax	1	A															
														0	0	0	4	0	0	0	0		

Crossed West Limb.

Absolute heliographic longitude: 161

Region 2198

28 Oct	S14W18	193	10	1		Axx	1	A													
29 Oct	S13W33	194	10	5		Axx	4	A													
30 Oct	S13W45	194	0	1		Axx	1	A					1								
31 Oct	S13W59	195	plage																		
01 Nov	S13W73	196	plage																		
02 Nov	S13W87	196	plage																		
														0	0	0	1	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 193



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

Region 2199

30 Oct	S17E23	126	20	3	Cro	4	B											
31 Oct	S17E09	127	plage															
01 Nov	S17W05	128	plage															
02 Nov	S17W19	128	plage															
03 Nov	S17W33	129	plage															
04 Nov	S17W47	130	plage															
05 Nov	S17W61	131	plage															
06 Nov	S17W75	131	plage															
07 Nov	S17W89	132	plage															
										0	0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 128

Region 2200

30 Oct	S16E48	101	20	2	Cao	5	B											
31 Oct	S16E33	103	20	2	Hrx	2	A											
01 Nov	S16E20	102	10	2	Hrx	1	A											
02 Nov	S16E06	103	10	1	Axx	2	A											
03 Nov	S16W07	103	20	4	Hrx	2	A											
04 Nov	S17W20	102	10	5	Axx	3	A											
05 Nov	S17W36	105	10	1	Axx	1	A											
06 Nov	S17W50	106	plage															
07 Nov	S17W64	107	plage															
08 Nov	S17W78	108	plage															
										0	0	0	1	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 103



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 2201																							
30 Oct	S05E65		84	30	1	Hax	1	A	4				1	2									
31 Oct	S05E51		85	50	1	Cao	3	B	2				2	1									
01 Nov	S05E37		85	50	2	Cai	5	B	4				8	1									
02 Nov	S05E23		86	50	4	Cai	7	B	2				8										
03 Nov	S05E10		86	30	7	Cao	7	B	3				3	1									
04 Nov	S05W06		88	30	4	Dai	8	B															
05 Nov	S05W19		88	70	7	Dai	9	B					2										
06 Nov	S04W33		89	70	8	Dai	10	B															
07 Nov	S04W48		91	70	8	Cao	10	B	1														
08 Nov	S05W62		92	20	4	Bxo	3	B	1				1										
09 Nov	S05W76		93	10	1	Axx	1	A															
									17	0	0	25	5	0	0	0							

Still on Disk.

Absolute heliographic longitude: 88

Region 2202

30 Oct	N13E15		134	10	3	Bxo	2	B													
31 Oct	N12E01		134	30	4	Cro	3	B													
01 Nov	N12W11		133	40	6	Cao	6	B													
02 Nov	N12W23		132	50	4	Cao	7	B													
03 Nov	N12W36		132	50	6	Cao	11	B					1								
04 Nov	N12W49		131	10	3	Bxo	8	B													
05 Nov	N12W63		132	10	3	Bxo	2	B													
06 Nov	N13W77		133	10	1	Axx	2	A													
									0	0	0	1	0	0	0	0	0				

Died on Disk.

Absolute heliographic longitude: 134



Region Summary - continued

Date	Location		Sunspot Characteristics				Flares											
	Lat CMD	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 2203																		
01 Nov	N12E08	114	30	3	Cao	4	B											
02 Nov	N12W05	114	150	6	Dao	9	B					2						
03 Nov	N12W19	115	200	7	Dao	6	B					1						
04 Nov	N12W31	113	120	8	Dao	6	B											
05 Nov	N12W45	114	80	7	Dao	7	B											
06 Nov	N15W59	115	110	8	Cao	6	B											
07 Nov	N12W70	113	20	9	Hsx	1	A											
08 Nov	N13W84	114	20	5	Hsx	1	A	2				2						
								2	0	0		5	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 114

Region 2204																		
01 Nov	N06E51	71	20	3	Cro	5	B											
02 Nov	N05E39	70	30	4	Cro	5	B											
03 Nov	N05E25	71	20	7	Cro	6	B											
04 Nov	N05E08	74	10	1	Axx	1	A											
05 Nov	N05W06	75	10	1	Axx	1	A											
06 Nov	N06W15	72	20	10	Cro	3	B					1						
07 Nov	N06W30	73	10	2	Bxo	5	B											
08 Nov	N06W45	75	10	3	Axx	2	A											
09 Nov	N06W59	76	plage															
								0	0	0		1	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 75

Region 2205																		
04 Nov	N15E66	15	100	11	Eac	1	B	2	2			13	1					
05 Nov	N16E56	14	250	14	Ekc	10	BGD	3	2			12	2					
06 Nov	N15E46	10	360	15	Ekc	24	BGD	3	3			8	2	1				
07 Nov	N15E32	11	410	14	Ekc	40	BGD	5	3	1		7		1	1			
08 Nov	N15E18	12	310	14	Ekc	35	BGD	4				8						
09 Nov	N15E05	12	350	14	Ekc	31	BGD	6	1			11	2					
								25	13	1		59	7	2	1	0		

Still on Disk.
Absolute heliographic longitude: 12



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 2206																	
05 Nov	S15E36		33	10	3	Bxo	2	B									
06 Nov	S15E25		31	10	2	Axx	2	A									
07 Nov	S15E11		32	plage													
08 Nov	S15W03		33	plage													
09 Nov	S15W17		34	plage													
									0	0	0	0	0	0	0	0	0
Still on Disk. Absolute heliographic longitude: 33																	
Region 2207																	
08 Nov	S08E64		326	40	2	Hax	1	A									
09 Nov	S08E52		325	30	2	Hax	1	A									
									0	0	0	0	0	0	0	0	0
Still on Disk. Absolute heliographic longitude: 325																	
Region 2208																	
09 Nov	S12E71		306	30	5	Cao	5	B									
									0	0	0	0	0	0	0	0	0
Still on Disk. Absolute heliographic longitude: 306																	

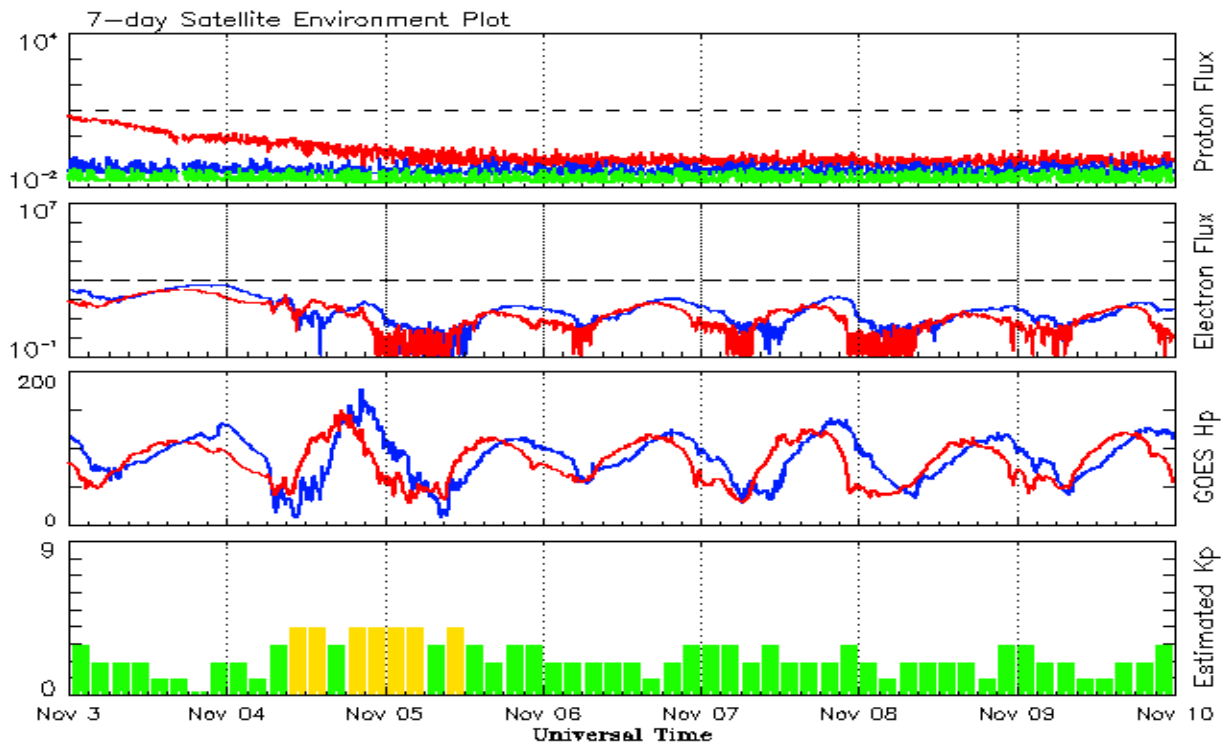


Recent Solar Indices (preliminary)
Observed monthly mean values

Month	Sunspot Numbers					Radio Flux		Geomagnetic	
	Observed values		Ratio	Smooth values		Penticton	Smooth	Planetary	Smooth
	SEC	RI	RI/SEC	SEC	RI	10.7 cm	Value	Ap	Value
2012									
November	89.2	61.8	0.69	87.3	59.7	120.9	120.1	6	7.3
December	60.4	40.8	0.68	88.0	59.6	108.4	120.1	3	7.5
2013									
January	99.8	62.9	0.63	87.1	58.7	127.1	118.9	4	7.5
February	60.0	38.1	0.63	86.7	58.4	104.4	118.0	5	7.4
March	81.0	57.9	0.71	85.7	57.6	111.2	117.1	9	7.4
April	112.8	72.4	0.64	86.7	57.9	125.0	116.6	5	7.2
May	125.5	78.7	0.63	90.5	59.9	131.3	118.1	10	7.0
June	80.1	52.5	0.66	94.4	62.6	110.2	120.9	13	7.1
July	86.1	57.0	0.66	97.9	65.5	115.6	123.9	9	7.3
August	90.2	66.0	0.73	103.7	68.9	114.7	127.9	9	7.6
September	55.0	37.0	0.67	111.0	73.0	102.7	132.3	5	7.8
October	127.1	85.6	0.67	114.3	74.9	132.3	134.7	7	7.8
November	125.7	77.6	0.62	114.6	75.3	148.4	135.4	5	7.9
December	118.2	90.3	0.76	115.4	75.9	147.7	135.9	5	7.5
2014									
January	125.9	81.8	0.65	117.7	77.3	158.6	137.3	6	7.1
February	174.6	102.3	0.59	119.5	78.4	170.3	138.6	12	6.9
March	141.1	91.9	0.65	123.2	80.8	149.9	140.8	6	7.2
April	130.5	84.7	0.65	124.8	81.9	144.3	143.5	9	7.5
May	116.8	75.2	0.64			130.0		7	
June	107.7	71.0	0.66			122.2		7	
July	113.6	72.5	0.64			137.3		5	
August	106.2	74.7	0.70			124.7		9	
September	127.4	87.6	0.69			146.1		11	
October	92.0	60.6	0.66			153.7		10	

Note: Values are final except for the most recent 6 months which are considered preliminary.
Cycle 24 started in Dec 2008 with an RI=1.7.





*Weekly Geosynchronous Satellite Environment Summary
Week Beginning 03 November 2014*

The proton flux plot contains the five-minute averaged integral proton flux (protons/cm²-sec -sr) as measured by the SWPC Primary GOES satellite, near West 75, for each of three energy thresholds: greater than 10, 50, and 100 MeV.

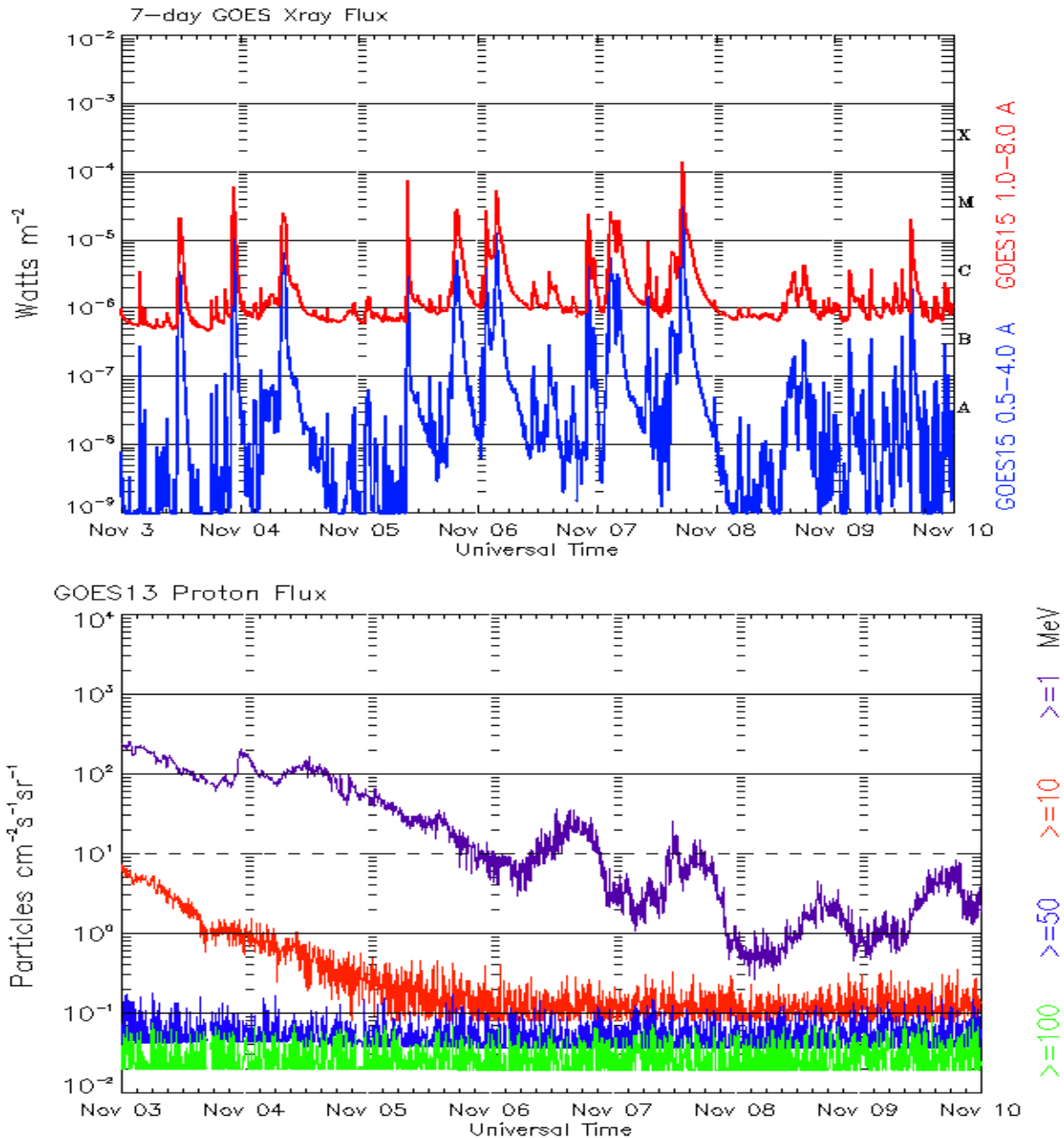
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

The Hp plot contains the five minute averaged Hp magnetic field component in nanoteslas (nT) as by the SWPC Primary GOES satellite. The Hp component is parallel to the spin axis of the satellite, which is nearly parallel to the Earth's rotation axis.

The Estimated 3-hour Planetary Kp-index is derived at the NOAA Space Weather Prediction Center using data from the following ground-based magnetometers: Boulder, Colorado; Chambon la Foret, France; Fredericksburg, Virginia; Fresno, California; Hartland, UK; Newport, Washington; Sitka, Alaska. These data are made available thanks to the cooperative efforts between SWPC and data providers around the world, which currently includes the U.S. Geological Survey, the British Geological Survey, and the Institut de Physique du Globe de Paris.

The data included here are those now available in real time at the SWPC and are incomplete in that they do not include the full set of parameters and energy ranges known to cause satellite operating anomalies. The proton and electron fluxes and Kp are 'global' parameters that are applicable to a first order approximation over large areas. H parallel is subject to more localized phenomena and the measurements generally are applicable to within a few degrees of longitude of the measuring satellite.

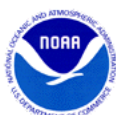




*Weekly GOES Satellite X-ray and Proton Plots
Week Beginning 03 November 2014*

The x-ray plots contains five-minute averages x-ray flux (Watt/m²) as measure by the SWPC primary GOES X-ray satellite, usually at West 105 longitude, in two wavelength bands, 0.05 - 0.4 and 0.1 - 0.8 nm. The letters A, B, C, M and X refer to x-ray event levels for the 0.1 - 0.8 nm band.

The proton plot contains the five-minute averaged intergral flux units (pfu = protons/cm² -sec -sr) as measured by the primary SWPC GOES Proton satellite for each of the energy thresholds: >1, >10, >30, and >100 MeV. The P10 event threshold is 10 pfu at greater than 10 MeV.



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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