

Space Weather Highlights
04 August - 10 August 2014

SWPC PRF 2032
11 August 2014

Solar activity was at low levels throughout the period. The largest event of the period was a C4/1n flare on 08 Aug at 1701 UTC from Region 2135 (N11, L=129, class/area=Dho/250 on 08 Aug). Regions 2130 (S07, L=229, class/area=Dkc/290 on 31 Jul) and 2132 (S21, L=212, class/area=Eac/230 on 08 Aug) produced only low-to-mid level C-class flare activity and were the most prominent regions of this period.

No Earth-directed coronal mass ejections (CMEs) were observed this period, however, a far-sided full-halo CME was observed in SOHO LASCO coronagraph imagery between 1555-1636 UTC on 08 Aug. This CME was associated with flare activity from old Region 2126 (S09, L=327).

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal levels on 04-05 Aug with normal to moderate levels observed on 06-10 Aug, reaching a maximum flux value of 908 pfu at 1640 UTC on 07 Aug.

Geomagnetic field activity was at quiet levels on 07 and 09 Aug with quiet to unsettled levels observed on 04-06, and 08 Aug. Quiet conditions with an isolated period of active conditions (1800-2100 UTC) were observed on 10 Aug, with the active period resulting from the influence of a negative polarity coronal hole high speed stream.

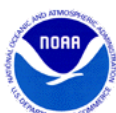
Space Weather Outlook
11 August - 06 September 2014

Solar activity is expected to be low throughout the outlook period.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal to moderate levels throughout the outlook period.

Geomagnetic field activity is expected to be quiet for 12, 14-21, 23, 25-27, 30 Aug, and 03-05 Sep. Quiet to unsettled conditions are expected for 11, 13, 22, 24, 28-29 Aug, 01-02, and 06 Aug due to weak influence from coronal hole high speed streams (CH HSS). Quiet to active conditions are expected for 31 Aug due to moderate CH HSS effects.



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
04 August	139	111	540	B5.5	4	0	0	9	0	0	0	0
05 August	139	93	450	B5.4	4	0	0	7	0	0	0	0
06 August	137	119	480	B4.8	1	0	0	5	0	0	0	0
07 August	136	158	570	B6.0	3	0	0	21	0	0	0	0
08 August	123	101	570	B4.8	4	0	0	6	1	0	0	0
09 August	113	111	460	B3.9	1	0	0	9	0	0	0	0
10 August	108	64	320	B3.4	1	0	0	9	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	>100 MeV	>0.6 MeV	>2MeV	>4 MeV
	04 August	1.1e+05	1.1e+04	2.6e+03		1.8e+05
05 August	1.2e+05	1.1e+04	2.5e+03		1.2e+06	
06 August	1.2e+05	1.1e+04	2.6e+03		1.2e+07	
07 August	1.2e+05	1.0e+04	2.6e+03		2.8e+07	
08 August	1.1e+05	1.1e+04	2.3e+03		1.4e+07	
09 August	1.0e+05	1.0e+04	2.5e+03		1.3e+07	
10 August	7.2e+04	1.1e+04	2.7e+03		1.1e+07	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	04 August	15	2-3-3-4-3-3-3-2	15	2-4-3-4-3-2-3-2	12
05 August	12	3-3-3-3-2-2-3-2	21	3-3-3-4-4-5-3-2	10	3-2-3-2-3-2-3-2
06 August	7	1-3-3-1-2-2-1-1	14	2-3-4-4-4-1-1-0	7	2-3-2-2-2-1-1-1
07 August	6	1-2-1-2-2-2-2-2	10	1-1-1-4-4-1-2-1	6	2-2-1-2-2-1-2-2
08 August	9	3-3-3-2-2-2-1-1	12	2-3-3-5-2-0-1-0	8	3-3-2-2-2-1-1-1
09 August	4	0-2-2-1-2-2-1-0	6	1-2-4-2-0-0-0-0	4	1-1-2-1-1-1-0-0
10 August	9	1-0-2-2-3-2-4-2	5	1-0-1-2-1-2-3-1	9	1-1-2-2-2-2-4-2

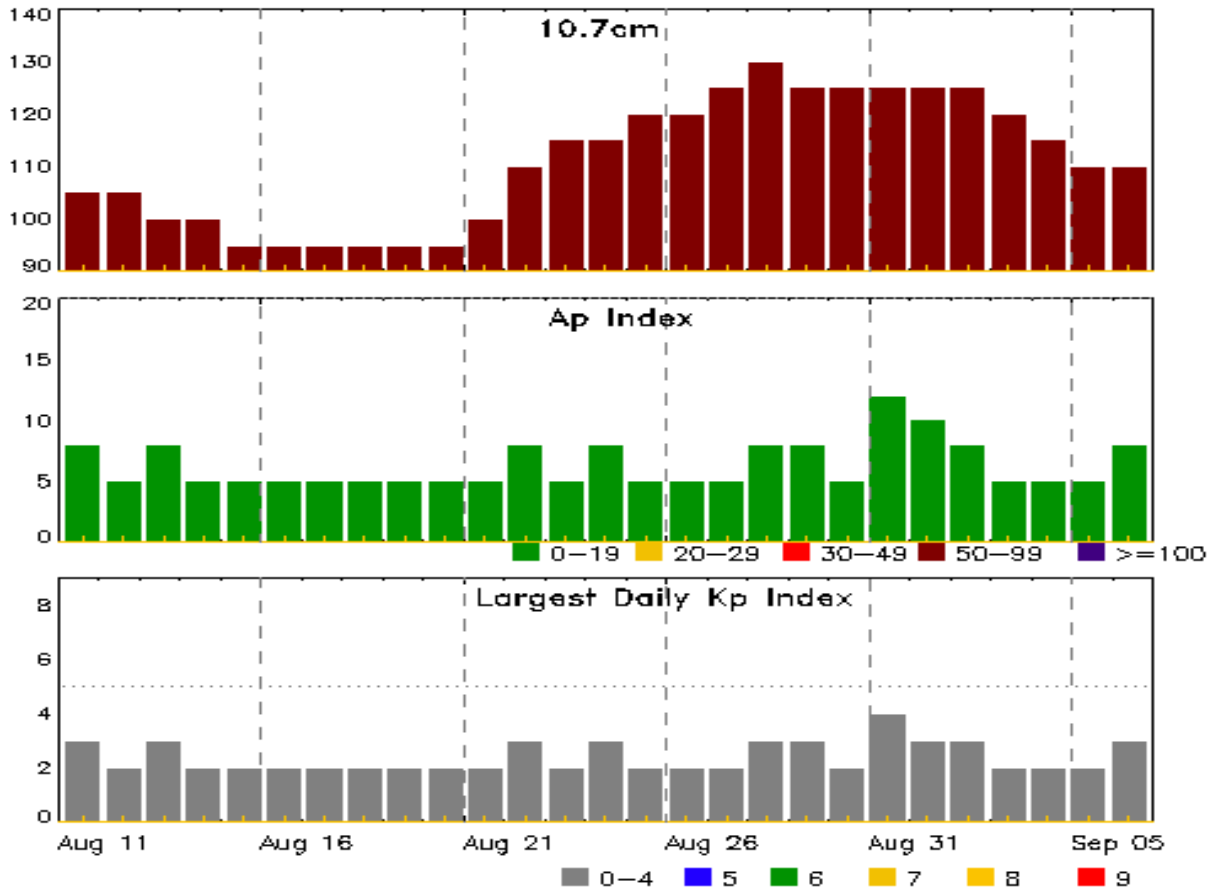


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
05 Aug 1633	ALERT: Type II Radio Emission	05/1554
05 Aug 1656	ALERT: Type IV Radio Emission	05/1627
05 Aug 1904	WARNING: Geomagnetic K = 4	05/1905 - 06/0700
08 Aug 0324	WARNING: Geomagnetic K = 4	08/0325 - 1300
10 Aug 2022	WARNING: Geomagnetic K = 4	10/2021 - 11/0400
10 Aug 2025	ALERT: Geomagnetic K = 4	10/2024



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
11 Aug	105	8	3	25 Aug	120	5	2
12	105	5	2	26	120	5	2
13	100	8	3	27	125	5	2
14	100	5	2	28	130	8	3
15	95	5	2	29	125	8	3
16	95	5	2	30	125	5	2
17	95	5	2	31	125	12	4
18	95	5	2	01 Sep	125	10	3
19	95	5	2	02	125	8	3
20	95	5	2	03	120	5	2
21	100	5	2	04	115	5	2
22	110	8	3	05	110	5	2
23	115	5	2	06	110	8	3
24	115	8	3				



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

No Events Observed

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
	Begin	Max	End				
04 Aug	0046	0053	0101	C3.4			2126
04 Aug	0149	0154	0207		SF	S08W20	2127
04 Aug	0244	0253	0259	C2.1	SF	N10E58	2134
04 Aug	0521	U0534	0537		SF	S12E17	2132
04 Aug	B0548	U0548	0555		SF	S12E16	2132
04 Aug	0635	U0640	0651		SF	S03E03	2130
04 Aug	0919	U0948	0951		SF	N13E53	2134
04 Aug	1112	1120	1122		SF	S09W21	2127
04 Aug	1543	1553	1614		SF	S23E18	2132
04 Aug	1714	1721	1731	C1.2	SF	S05W12	2130
04 Aug	2145	2202	2214	C1.0			2132
04 Aug	2254	2258	2302	B9.8			2132
05 Aug	1027	1028	1033		SF	S18E02	2132
05 Aug	1125	1130	1134	C1.7	SF	S18E01	2132
05 Aug	1301	1302	1308		SF	S19E00	2132
05 Aug	1324	1333	1345		SF	S18E02	2132
05 Aug	1412	1418	1423	C2.2	SF	S19W01	2132
05 Aug	1433	1436	1438		SF	S18W00	2132
05 Aug	1538	1540	1616	C1.1	SF	N14E52	
05 Aug	2022	2027	2031	C2.5			2132
06 Aug	0251	0253	0320		SF	S18W07	2132
06 Aug	0330	0339	0350	C1.7	SF	S17W07	2132
06 Aug	0713	0714	0720		SF	S18W08	2132
06 Aug	1426	1431	1438		SF	S22W08	2132
06 Aug	1433	1435	1440		SF	S14W50	2127
07 Aug	0206	0211	0223		SF	N12E64	2135
07 Aug	0232	0249	0302		SF	N12E64	2135
07 Aug	0237	0238	0240		SF	S20W61	2128
07 Aug	0305	0309	0317	B7.7	SF	S18W19	2132
07 Aug	0347	0348	0352		SF	S12W70	2127
07 Aug	0549	0552	0554	C1.1	SF	S09W44	2130



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
07 Aug	0551	0552	0554		SF	S12W43	2130
07 Aug	0616	0616	0621		SF	S21W28	2132
07 Aug	0635	0637	0637		SF	S24W61	2128
07 Aug	0724	0724	0748		SF	S20W61	2128
07 Aug	0726	0727	0729		SF	S13W73	2127
07 Aug	0752	0821	0859		SF	S20W61	2128
07 Aug	0804	0805	0806		SF	S24W62	2128
07 Aug	0811	0819	0825		SF	S24W62	2128
07 Aug	0837	0838	0840		SF	S24W62	2128
07 Aug	0853	0854	0901		SF	S12W74	2127
07 Aug	0914	0920	0927		SF	S10W69	2127
07 Aug	0942	0943	0945		SF	S10W69	2127
07 Aug	1134	1135	1142		SF	N12E12	2134
07 Aug	1247	1251	1304		SF	S07W45	2130
07 Aug	1620	1625	1638		SF	N14E55	2135
07 Aug	1657	1728	1749	C1.4			
07 Aug	2223	2256	2323	C2.2			2132
08 Aug	0902	0904	0934		SF	S20W35	2132
08 Aug	0950	U0952	0958		SF	S22W33	2132
08 Aug	1127	1133	1135	C1.8	SF	N13E48	2135
08 Aug	1251	1258	1313	C1.2	SF	S25W33	2132
08 Aug	1359	1410	1418	C1.0	SF	S19W37	2132
08 Aug	1651	1656	1702		SF	S24W35	2132
08 Aug	1657	1701	1703	C4.5	1N	N13E44	2135
09 Aug	0217	0221	0225		SF	S22W42	2132
09 Aug	0240	0244	0250	B8.8	SF	N12E38	2135
09 Aug	0250	0252	0300		SF	S22W42	2132
09 Aug	0323	0326	0330	B8.3	SF	N12E38	2135
09 Aug	0527	0531	0540		SF	S12W71	2131
09 Aug	0747	0750	0752	B6.8			2135
09 Aug	0826	0830	0832	B7.2	SF	N13E35	2135
09 Aug	0857	0901	0903	C2.7	SN	N12E34	2135
09 Aug	1125	1127	1130		SF	N13E33	2135
09 Aug	1315	1316	1321		SF	S22W48	2132
10 Aug	0304	0307	0313	B7.3	SF	S21W09	2137
10 Aug	0644	0645	0652		SF	S18W10	2137
10 Aug	0813	0814	0819		SF	S16W11	2137
10 Aug	1004	1007	1010	B8.9	SF	S20W11	2137



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
10 Aug	1046	1046	1050		SF	S16W13	2137
10 Aug	1121	1125	1127		SF	S16W13	2137
10 Aug	1348	1348	1356		SF	S19W14	2137
10 Aug	1618	1618	1620		SF	N14E19	2135
10 Aug	2129	2134	2136	C1.6	SF	S18W20	2137



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

Region 2124

26 Jul	S21E64	273	10	1	Axx	1	A										
27 Jul	S22E49	274	10	1	Axx	1	A										
28 Jul	S21E36	274	10	1	Axx	2	A										
29 Jul	S21E23	274	10	1	Axx	2	A										
30 Jul	S21E09	275	plage														
31 Jul	S21W05	276	plage														
01 Aug	S21W19	276	plage														
02 Aug	S21W33	277	plage														
03 Aug	S21W47	278	plage														
04 Aug	S21W61	279	plage														
05 Aug	S21W75	279	plage														
									0	0	0	0	0	0	0	0	0

Died on Disk.

Absolute heliographic longitude: 276

Region 2125

26 Jul	S12E69	268	20	6	Cro	3	B	1			1						
27 Jul	S13E57	266	40	4	Cao	4	B	1			5						
28 Jul	S13E46	264	50	7	Cao	6	B	2			3	1					
29 Jul	S13E31	266	40	7	Hax	3	A										
30 Jul	S14E16	267	20	1	Hax	1	A	1									
31 Jul	S14E03	268	20	1	Hsx	1	A										
01 Aug	S14W11	268	20	1	Hsx	1	A										
02 Aug	S14W25	269	10	1	Axx	1	A										
03 Aug	S14W39	270	plage														
04 Aug	S14W53	271	plage														
05 Aug	S14W67	271	plage														
06 Aug	S14W81	272	plage														
									5	0	0	9	1	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 268



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 2126																							
26 Jul	S10E16	321	30	3	Cro	8	B																
27 Jul	S10E03	320	50	8	Dao	10	B																
28 Jul	S10W11	321	80	9	Dai	22	BG						1										
29 Jul	S09W28	325	90	11	Eai	21	BG	4					4										
30 Jul	S09W41	324	120	9	Dai	16	B																
31 Jul	S09W54	325	100	10	Dao	7	B																
01 Aug	S09W68	325	70	12	Cao	8	B																
02 Aug	S09W82	326	60	13	Cso	7	B						1										
03 Aug	S09W96	327	10	5	Bxo	2	B																
								4	0	0		6	0	0	0	0							

Crossed West Limb.

Absolute heliographic longitude: 320

Region 2127																							
27 Jul	S08E75	248	80	5	Dao	3	B	1															
28 Jul	S08E62	248	210	5	Dac	7	BD																
29 Jul	S08E48	249	250	5	Dkc	6	BD						1										
30 Jul	S09E36	247	300	5	Dkc	12	BG	3					2	1									
31 Jul	S09E22	249	270	5	Dkc	10	BG	1					1										
01 Aug	S09E08	249	240	5	Dac	11	BG		1														
02 Aug	S08W06	250	180	5	Dac	10	B																
03 Aug	S08W20	251	80	5	Hsx	7	A						1										
04 Aug	S07W34	252	40	5	Dso	8	B						2										
05 Aug	S08W47	251	30	7	Dri	8	B																
06 Aug	S08W62	252	60	6	Dao	6	B						1										
07 Aug	S11W78	255	10	1	Bxo	3	B						5										
								5	1	0		13	1	0	0	0							

Crossed West Limb.

Absolute heliographic longitude: 250



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 2128																		
27 Jul	S21E75	248	30	3	Hrx	1	A											
28 Jul	S21E61	249	30	2	Hsx	1	A											
29 Jul	S20E47	250	30	2	Hsx	1	A											
30 Jul	S20E33	251	30	2	Hax	1	A											
31 Jul	S20E21	250	30	1	Hsx	1	A											
01 Aug	S21E07	250	20	1	Hsx	1	A											
02 Aug	S21W05	249	20	1	Hrx	1	A											
03 Aug	S21W19	250	10	1	Axx	1	A											
04 Aug	S21W33	251	plage															
05 Aug	S21W47	251	plage															
06 Aug	S20W61	252	10	1	Cao	1	B											
07 Aug	S19W75	252	10	1	Axx	2	A					7						
08 Aug	S19W89	254	plage															
								0	0	0	7	0	0	0	0			

Crossed West Limb.
 Absolute heliographic longitude: 249

Region 2130																		
29 Jul	S07E71	226	290	6	Dki	8	BG	3				2						
30 Jul	S08E56	227	290	8	Dkc	7	BGD	1										
31 Jul	S07E42	229	290	8	Dkc	19	BG	5	1			3						
01 Aug	S07E27	230	260	14	Ekc	22	BG	1	1			4	1					
02 Aug	S07E16	228	200	15	Eac	18	BG	1				2						
03 Aug	S07E02	229	160	17	Fac	23	BGD	1				1						
04 Aug	S07W12	230	110	18	Fac	18	BG	1				2						
05 Aug	S07W23	227	60	19	Fso	16	B											
06 Aug	S07W41	230	30	10	Hrx	9	A											
07 Aug	S08W54	231	10	7	Bxo	4	B	1				3						
08 Aug	S08W68	233	10	2	Axx	2	A											
09 Aug	S08W82	234	10	1	Axx	1	A											
								14	2	0	17	1	0	0	0			

Crossed West Limb.
 Absolute heliographic longitude: 229



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 2131																		
29 Jul	S18E59	238	10	3	Cao	3	B											
30 Jul	S19E45	238	20	5	Dro	4	B											
31 Jul	S18E33	238	30	5	Dro	5	B											
01 Aug	S18E19	238	30	5	Cro	6	B					2						
02 Aug	S18E05	239	40	6	Dai	9	B					2						
03 Aug	S19W09	240	30	6	Dai	6	B											
04 Aug	S19W23	241	10	6	Hsx	3	A											
05 Aug	S19W37	241	plage															
06 Aug	S19W51	242	plage															
07 Aug	S19W65	243	plage															
08 Aug	S19W79	244	plage															
								0	0	0	4	0	0	0	0			

Crossed West Limb.
 Absolute heliographic longitude: 239

Region 2132																		
31 Jul	S18E60	211	30	4	Cro	5	B											
01 Aug	S19E46	211	200	7	Dac	16	BGD	1				9	1					
02 Aug	S19E32	212	220	9	Dai	23	BGD	3				7						
03 Aug	S19E18	213	220	11	Eai	23	BG	2				6	1					
04 Aug	S20E04	214	210	11	Eai	14	BG	1				3						
05 Aug	S21W07	211	190	12	Eai	19	BG	3				6						
06 Aug	S20W21	212	210	12	Eac	30	B	1				4						
07 Aug	S21W33	210	240	13	Eac	54	B	1				2						
08 Aug	S21W47	212	230	12	Eac	18	B	2				5						
09 Aug	S19W61	213	180	12	Eao	16	B					3						
10 Aug	S19W75	213	60	8	Cao	7	B											
								14	0	0	45	2	0	0	0			

Still on Disk.
 Absolute heliographic longitude: 214



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 2133																							
02 Aug	N18E60	184	20	1	Hrx	1	A																
03 Aug	N18E46	185	20	1	Hrx	1	A	1															
04 Aug	N18E32	186	10	1	Hrx	1	A																
05 Aug	N18E18	186	plage																				
06 Aug	N18E04	187	plage																				
07 Aug	N18W10	188	plage																				
08 Aug	N18W24	189	plage																				
09 Aug	N18W38	190	plage																				
10 Aug	N18W52	190	plage																				
									1	0	0	0	0	0	0	0	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 187

Region 2134																							
02 Aug	N09E69	175	90	10	Dao	6	B						1										
03 Aug	N09E55	176	150	10	Dao	9	B	2					5										
04 Aug	N09E41	177	160	8	Dso	7	B	1					2										
05 Aug	N09E29	175	170	8	Dac	10	BGD																
06 Aug	N09E15	175	140	8	Dai	9	BD																
07 Aug	N08E03	174	130	9	Dai	25	B						1										
08 Aug	N08W11	176	70	9	Cai	17	B																
09 Aug	N08W25	177	10	12	Bxo	15	B																
10 Aug	N08W37	175	10	2	Axx	2	A																
									3	0	0	9	0	0	0	0	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 174

Region 2135																							
06 Aug	N11E64	127	30	4	Cro	4	B																
07 Aug	N11E50	127	170	7	Dso	10	B						3										
08 Aug	N11E36	129	250	8	Dho	10	BG	2					1	1									
09 Aug	N12E22	130	240	9	Dso	15	BG	1					5										
10 Aug	N12E08	130	220	10	Dso	10	B						1										
									3	0	0	10	1	0	0	0	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 130



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 2136

08 Aug	N08W43	208	10	4	Bxo	4	B										
09 Aug	N08W57	209	10	1	Axx	1	A										
10 Aug	N08W71	209	plage														
									0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 208

Region 2137

09 Aug	S19W09	161	10	2	Hrx	3	A										
10 Aug	S19W23	161	30	3	Cao	5	B	1				8					
								1	0	0	8	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 161

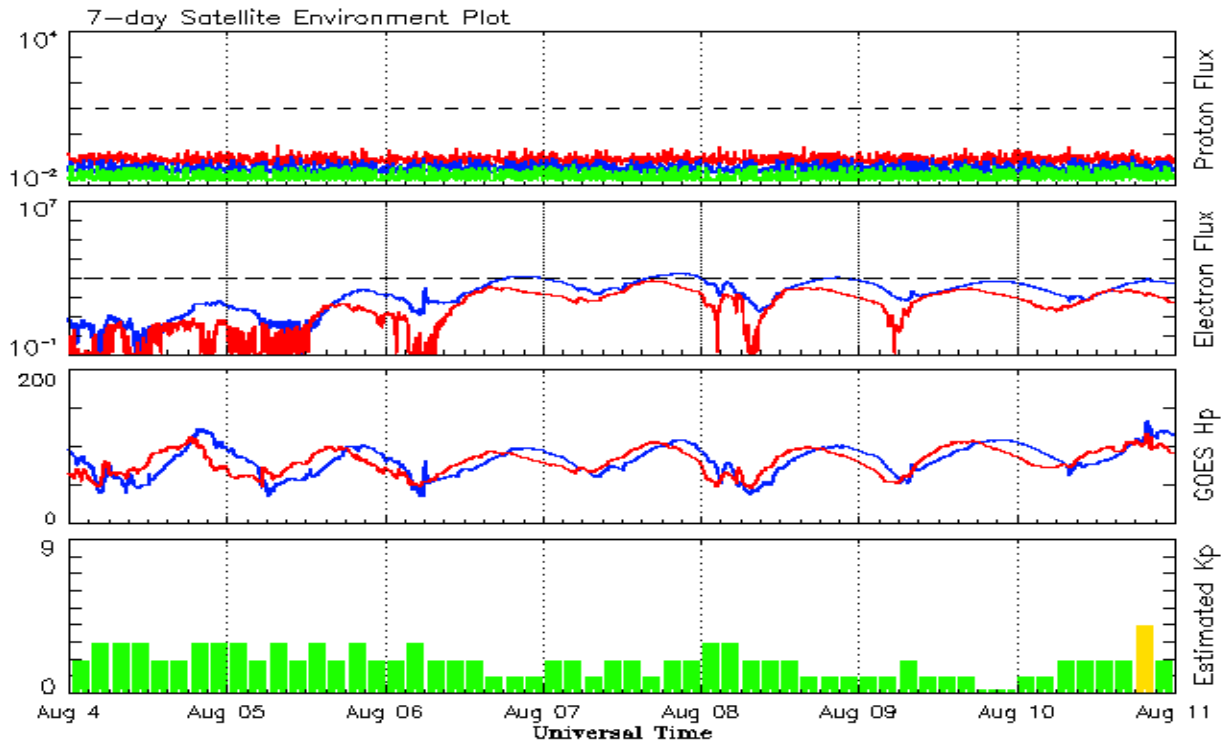


Recent Solar Indices (preliminary)
Observed monthly mean values

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									
August	85.8	63.0	0.74	83.1	58.2	115.7	119.2	7	8.1
September	84.0	61.4	0.73	83.7	58.1	123.2	118.9	8	7.8
October	73.5	53.3	0.73	85.0	58.6	123.3	119.2	9	7.4
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			170.3		12	
March	141.1	91.9	0.65			149.9		6	
April	130.5	84.7	0.65			144.3		9	
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	

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 04 August 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.

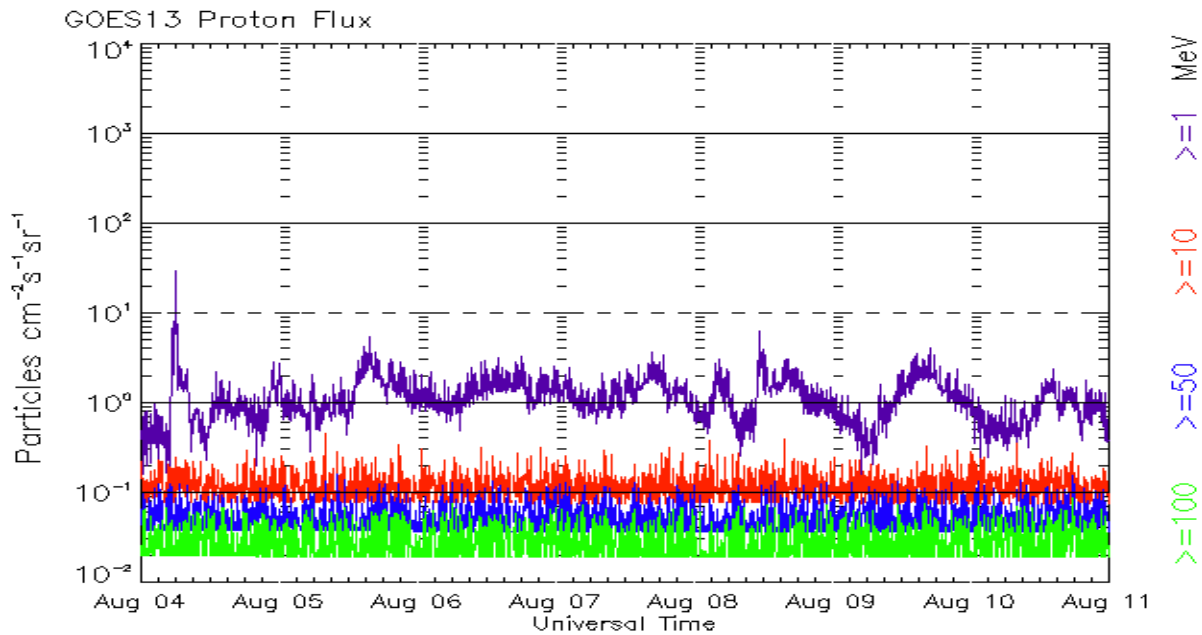
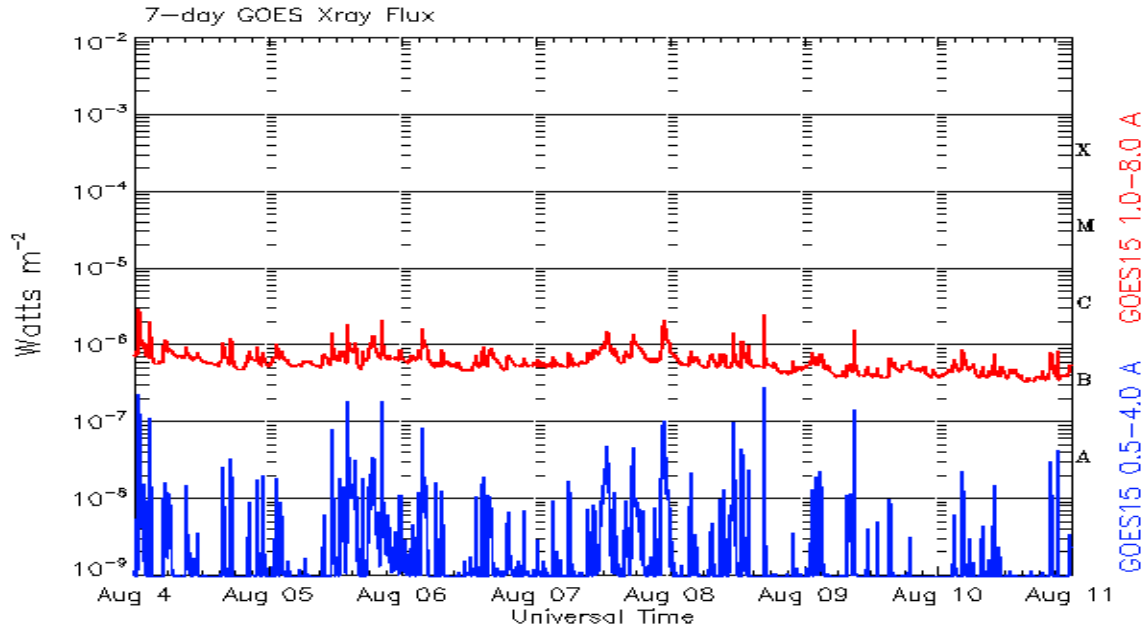
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 04 August 2014*

The x-ray plots contains five-minute averages x-ray flux (Watt/ m^2) 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/ cm^2 -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.



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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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