

Solar activity was at low levels this period. Region 2396 (S17, L=038, class/area=Ekc/840 on 09 Aug) was the most productive region on the visible disk this period, but only produced C-class flare activity. Region 2396 produced a total of 18 C-class flares throughout the period, the largest of which was a C5/Sf flare at 07/1941 UTC.

Two filament eruptions from the southeast quadrant were observed this period, but were not Earth-directed. The first eruption, centered near S27E45 and estimated to be 25 degrees in extent, was observed lifting off in SDO/AIA 304 imagery at around 07/1809 UTC. The associated coronal mass ejection (CME) was observed in SOHO/LASCO C2 coronagraph imagery beginning at 07/2048 UTC but was directed well south and east of the Sun-Earth line. The second eruption, centered near S36E78 and estimated to be 18 degrees in extent, was observed lifting off at around 07/2240 UTC in SDO/AIA 304 imagery. There was not an obvious CME signature with the second eruption but it's possible that it could have been obscured by the CME associated with the first eruption. No Earth-directed CMEs were observed this period.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at moderate levels on 06 and 08 Aug and was at high levels throughout the remainder of the summary period with a peak flux value of 2,250 pfu observed at 09/1825 UTC.

Geomagnetic field activity reached G1 (Minor) geomagnetic storm conditions on 07 Aug with active levels observed on 06 and 07 Aug in response to the influence of multiple recurrent coronal hole high speed streams (CH HSSs). Geomagnetic field activity was at quiet to unsettled levels throughout the remainder of the summary period.

### **Space Weather Outlook** **10 August - 05 September 2015**

Solar activity is expected to be at low levels throughout the outlook period with a chance for M-class (R1-R2/Minor-Moderate) flare activity on 10-14 Aug and 27 Aug-05 Sep due to the flare potential of Region 2396 (S17, L=038).

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 10-11, 17-24, 27-29 Aug and 02-05 Sep with high levels expected on 12-16, 25-26, 30-31 Aug and 01 Sep.

Geomagnetic field activity is expected to be at G1 (Minor) geomagnetic storm levels on 10 Aug and 03, 05 Sep with active levels expected on 11, 17, 23, 27 Aug and 02, 04 Sep due to the influence of multiple recurrent CH HSSs. Field activity is expected to be at quiet to unsettled



levels throughout the remainder of the outlook period.



### *Daily Solar Data*

Date	Radio Flux 10.7cm	Sun spot No.	Sunspot Area (10 <sup>-6</sup> hemi.)	X-ray Background Flux	Flares							
					X-ray			Optical				
					C	M	X	S	1	2	3	4
03 August	106	62	181	B3.1	0	0	0	1	0	0	0	0
04 August	107	68	270	B2.5	0	0	0	2	0	0	0	0
05 August	112	87	450	B2.7	0	0	0	10	0	0	0	0
06 August	122	80	700	B3.4	3	0	0	11	0	0	0	0
07 August	122	95	850	B4.6	11	0	0	15	0	0	0	0
08 August	121	92	920	B4.3	4	0	0	4	0	0	0	0
09 August	115	87	900	B3.5	1	0	0	1	0	0	0	0

### *Daily Particle Data*

Date	Proton Fluence (protons/cm <sup>2</sup> -day-sr)			Electron Fluence (electrons/cm <sup>2</sup> -day-sr)		
	>1 MeV	>10 MeV	>100 MeV	>0.6 MeV	>2MeV	>4 MeV
	03 August	1.7e+05	1.1e+04	2.6e+03		4.5e+07
04 August	2.1e+05	1.1e+04	2.8e+03		6.2e+07	
05 August	1.6e+05	1.1e+04	2.8e+03		4.5e+07	
06 August	3.3e+05	1.1e+04	2.7e+03		2.0e+07	
07 August	1.3e+06	1.1e+04	2.7e+03		3.9e+07	
08 August	1.9e+05	1.1e+04	2.7e+03		1.9e+07	
09 August	4.0e+05	1.1e+04	2.6e+03		5.0e+07	

### *Daily Geomagnetic Data*

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	03 August	9	2-3-3-2-3-2-1-1	7	2-3-2-1-3-1-1-0	6
04 August	9	2-2-2-2-3-2-1-3	6	2-1-1-2-3-1-1-2	7	2-2-1-1-2-1-1-3
05 August	7	2-1-1-2-2-3-2-2	4	2-2-1-0-1-1-1-1	6	2-1-1-1-2-2-2-2
06 August	12	2-2-3-4-3-2-2-2	25	2-2-4-6-5-3-2-2	11	2-2-2-4-3-2-2-3
07 August	17	3-2-5-3-4-3-2-1	35	2-2-5-6-6-5-2-1	20	3-2-5-3-5-4-2-2
08 August	15	1-3-3-4-3-3-3-3	19	2-2-4-5-4-3-3-2	12	2-2-3-3-3-2-3-3
09 August	10	1-2-2-3-3-2-2-3	33	2-4-4-7-4-3-3-2	10	2-2-3-3-2-2-2-3

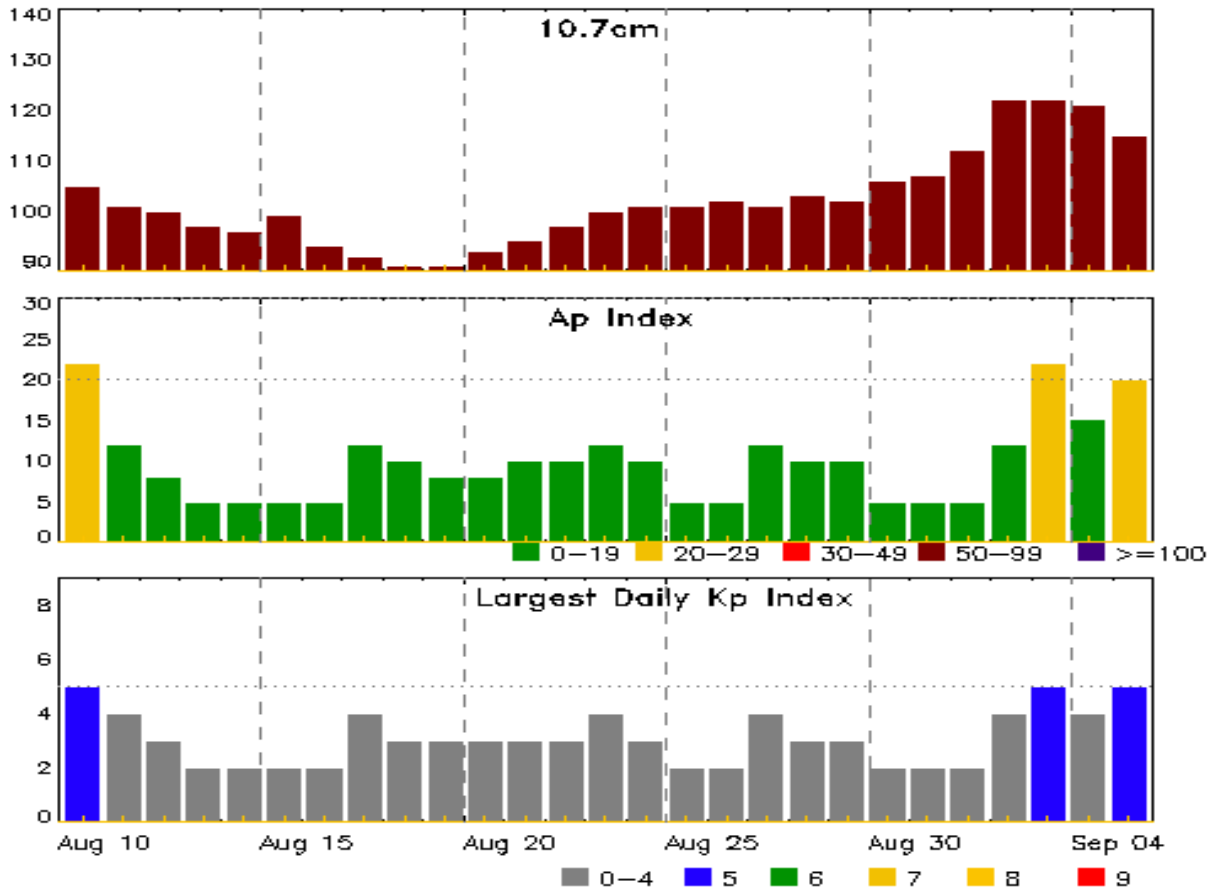


### *Alerts and Warnings Issued*

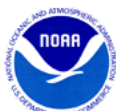
<b>Date &amp; Time of Issue UTC</b>	<b>Type of Alert or Warning</b>	<b>Date &amp; Time of Event UTC</b>
03 Aug 1654	ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	03/1630
04 Aug 1221	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	03/1630
04 Aug 2115	WATCH: Geomagnetic Storm Category G1 predicted	
05 Aug 1411	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	03/1630
06 Aug 0927	ALERT: Geomagnetic K = 4	06/0921
06 Aug 1140	WARNING: Geomagnetic K = 4	06/1139 - 2359
06 Aug 1928	WATCH: Geomagnetic Storm Category G1 predicted	
06 Aug 2337	EXTENDED WARNING: Geomagnetic K = 4	06/1139 - 07/0900
07 Aug 0749	ALERT: Geomagnetic K = 4	07/0748
07 Aug 0759	WARNING: Geomagnetic K = 5	07/0758 - 1400
07 Aug 0805	EXTENDED WARNING: Geomagnetic K = 4	06/1139 - 07/1500
07 Aug 0902	ALERT: Geomagnetic K = 5	07/0859
07 Aug 1355	EXTENDED WARNING: Geomagnetic K = 4	06/1139 - 08/0100
07 Aug 1357	EXTENDED WARNING: Geomagnetic K = 5	07/0758 - 2200
07 Aug 1502	ALERT: Geomagnetic K = 5	07/1459
07 Aug 1556	ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	07/1540
07 Aug 1619	WATCH: Geomagnetic Storm Category G1 predicted	
08 Aug 0952	WARNING: Geomagnetic K = 4	08/0952 - 1400
08 Aug 1355	EXTENDED WARNING: Geomagnetic K = 4	08/0952 - 2300
08 Aug 2254	EXTENDED WARNING: Geomagnetic K = 4	08/0952 - 09/0400
09 Aug 1356	ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	09/1340



## 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 Aug	105	22	5	24 Aug	101	10	3
11	101	12	4	25	101	5	2
12	100	8	3	26	102	5	2
13	97	5	2	27	101	12	4
14	96	5	2	28	103	10	3
15	99	5	2	29	102	10	3
16	93	5	2	30	106	5	2
17	91	12	4	31	107	5	2
18	89	10	3	01 Sep	112	5	2
19	89	8	3	02	122	12	4
20	92	8	3	03	122	22	5
21	94	10	3	04	121	15	4
22	97	10	3	05	115	20	5
23	100	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

**No Events Observed**

## *Flare List*

Date	Time			X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
	Begin	Max	End				
03 Aug	0537	0548	0556	B5.4	SF	N05W08	2391
04 Aug	0912	0918	0937		SF	S16E52	2396
04 Aug	1635	1635	1638		SF	N16W14	2393
04 Aug	1836	1841	1851	B4.4			2396
05 Aug	0235	0240	0243	B5.5	SF	S19E45	2396
05 Aug	0447	0451	0453	B5.7	SF	N11W01	2394
05 Aug	0620	0620	0626		SF	S17E40	2396
05 Aug	0706	0727	0735		SF	S15E40	2396
05 Aug	0906	0907	0918	B5.2	SF	S15E39	2396
05 Aug	0927	0930	0934		SF	S17E38	2396
05 Aug	1133	1138	1146	B7.2	SF	S15E37	2396
05 Aug	B1306	U1308	1416		SF	S17E36	2396
05 Aug	1601	1606	1610	B7.3			2396
05 Aug	1615	1635	1719		SF	S17E34	2396
05 Aug	B1838	U1839	1843		SF	S17E34	2396
05 Aug	2126	2129	2140	B7.1			2396
06 Aug	0024	0025	0027		SF	N15W79	
06 Aug	0116	0124	0125		SF	N15W75	
06 Aug	0423	0425	0428		SF	S18E28	2396
06 Aug	0534	0601	0612		SF	S14E27	2396
06 Aug	0634	0644	0647		SF	S16E29	2396
06 Aug	B0653	0656	0700		SF	S16E29	2396
06 Aug	B0733	U0733	A0752		SF	S16E29	2396
06 Aug	0828	0829	0830	B5.0			
06 Aug	0838	0905	0915	C1.0			2396
06 Aug	0851	U0851	0902		SF	S14E26	2396
06 Aug	0903	U0905	0912		SF	S16E28	2396
06 Aug	1605	1605	1613		SF	S17E24	2396
06 Aug	1909	1921	1936	C2.1	SF	S17E34	2396
06 Aug	2140	2149	2158	C1.5			2396
07 Aug	0345	0357	0406	C4.8			2396



## *Flare List*

Date	Time			X-ray Class	Imp/ Brtns	Optical	
	Begin	Max	End			Location Lat CMD	Rgn #
07 Aug	0625	0634	0647	B6.7	SF	S17E16	2396
07 Aug	0654	0659	0700		SF	S15E17	2396
07 Aug	0749	0749	0804		SF	S16E16	2396
07 Aug	0901	0908	0917	C1.1	SF	S17E15	2396
07 Aug	1005	1012	1023	B8.4	SF	S18E14	2396
07 Aug	1401	1449	1511	C1.8	SF	S17E08	2396
07 Aug	1557	1601	1612	B6.7	SF	N12W31	2394
07 Aug	1659	1706	1726	C1.9	SF	S17E08	2396
07 Aug	1811	1815	1819	C2.0	SF	N11W36	2394
07 Aug	1840	1845	1851	C1.6			2396
07 Aug	1842	1846	1849		SF	S17E06	2396
07 Aug	1853	1910	1924	C3.4	SF	S16E06	2396
07 Aug	1934	1941	1950	C5.4	SF	S17E06	2396
07 Aug	2039	2044	2048	C1.0	SF	S16E04	2396
07 Aug	2111	2116	2120	C1.0	SF	S17E04	2396
07 Aug	2236	2243	2300	C1.7	SF	S17E04	2396
08 Aug	0238	0252	0323	C1.4			2396
08 Aug	B0540	U0603	0702	C1.5	SF	S18E00	2396
08 Aug	0900	0915	0930	C1.6	SF	S18W01	2396
08 Aug	1417	1438	1452	C1.0	SF	S17W05	2396
08 Aug	1509	1515	1523	B7.5	SF	N11W47	2394
09 Aug	0730	0752	0823	C4.2	SF	S17W11	2396



## Region Summary

Date	Location		Sunspot Characteristics					Flares															
	Lat CMD	Lon	Helio 10 <sup>-6</sup> hemi.	Area	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical											
									C	M	X	S	1	2	3	4							
<b>Region 2389</b>																							
24 Jul	S11E62	164	30	5	Cai	6	B	3				9	1										
25 Jul	S11E48	164	80	8	Dai	11	BG					1											
26 Jul	S11E35	164	60	7	Cai	8	BG	1				6											
27 Jul	S12E23	163	30	6	Cro	7	B																
28 Jul	S12E09	164	10	7	Bxo	8	B																
29 Jul	S11W07	166	10	6	Bxo	6	B																
30 Jul	S12W20	166	10	7	Axx	1	A																
31 Jul	S12W35	168	plage																				
01 Aug	S12W49	169	plage																				
02 Aug	S12W63	170	plage																				
03 Aug	S12W77	170	plage																				
									4	0	0	16	1	0	0	0	0						

Died on Disk.

Absolute heliographic longitude: 166

### Region 2390

24 Jul	S15E28	198	10	3	Bxo	2	B														
25 Jul	S15E13	199	50	6	Dai	10	B														
26 Jul	S15E01	198	130	7	Dac	10	BG														
27 Jul	S17W13	199	170	8	Dai	15	BG					2									
28 Jul	S15W26	199	150	8	Dai	17	BG														
29 Jul	S15W39	198	110	8	Dai	18	B														
30 Jul	S15W53	199	70	10	Dso	10	B														
31 Jul	S15W66	199	100	10	Dai	11	BG														
01 Aug	S14W79	199	80	8	Cao	5	B	1				1									
02 Aug	S15W91	198	50	3	Cso	2	B														
									1	0	0	3	0	0	0	0	0				

Crossed West Limb.

Absolute heliographic longitude: 198





### *Region Summary - continued*

Date	Location		Sunspot Characteristics				Flares											
	Lat CMD	Helio Lon	Area 10 <sup>6</sup> hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical							
								C	M	X	S	1	2	3	4			
<b>Region 2391</b>																		
27 Jul	N05E71	115	40	2	Hsx	1	A											
28 Jul	N07E56	117	50	2	Hsx	1	A											
29 Jul	N06E44	115	60	2	Hsx	1	A											
30 Jul	N06E31	115	60	2	Hax	2	A											
31 Jul	N07E17	116	50	2	Hax	1	A											
01 Aug	N06E03	117	20	1	Hax	3	A											
02 Aug	N07W10	117	10	1	Axx	1	A											
03 Aug	N06W23	116	1	1	Axx	1	A						1					
04 Aug	N07W32	113	10	1	Axx	1	A											
05 Aug	N07W47	114	plage															
06 Aug	N07W62	116	plage															
07 Aug	N07W77	117	plage															
										0	0	0	1	0	0	0	0	0

Died on Disk.

Absolute heliographic longitude: 117

<b>Region 2392</b>																		
29 Jul	S05E50	109	20	1	Hrx	1	A											
30 Jul	S05E37	109	0	1	Axx	1	A											
31 Jul	S04E23	110	0		Axx	1	A											
01 Aug	S05E08	112	0		Axx	1	A											
02 Aug	S05W07	114	plage															
03 Aug	S05W22	115	plage															
04 Aug	S05W37	117	plage															
05 Aug	S05W52	119	plage															
06 Aug	S05W67	121	plage															
07 Aug	S05W82	122	plage															
										0	0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 114



### *Region Summary - continued*

Date	Location		Sunspot Characteristics				Flares											
	Lat CMD	Helio Lon	Area 10 <sup>6</sup> hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical							
								C	M	X	S	1	2	3	4			
<b>Region 2393</b>																		
30 Jul	N16E45	101	10	5	Dao	8	B											
31 Jul	N17E34	99	90	7	Dao	6	B											
01 Aug	N17E22	98	50	6	Cao	7	B					1						
02 Aug	N18E08	99	30	4	Cro	5	B											
03 Aug	N18W06	99	20	2	Hax	2	A											
04 Aug	N18W20	100	20	1	Hsx	1	A					1						
05 Aug	N18W33	100	20	1	Hsx	1	A											
06 Aug	N18W46	100	20	1	Hax	1	A											
07 Aug	N19W60	100	10	1	Hrx	1	A											
08 Aug	N19W72	99	10	1	Hrx	1	A											
09 Aug	N19W84	98	0	1	Axx	1	A											
								0	0	0	2	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 99

<b>Region 2394</b>																		
30 Jul	N12E65	81	120	1	Hsx	1	A											
31 Jul	N12E54	79	120	2	Hax	2	A											
01 Aug	N12E41	79	140	3	Hsx	4	A					1						
02 Aug	N12E28	79	140	2	Hax	3	A											
03 Aug	N12E14	78	120	3	Cao	4	B											
04 Aug	N11E01	78	130	4	Dai	8	BG											
05 Aug	N11W12	79	120	7	Cao	12	BG					1						
06 Aug	N11W25	79	100	4	Cao	7	B											
07 Aug	N11W38	78	80	5	Cao	8	B	1				2						
08 Aug	N12W52	79	80	4	Cso	4	B					1						
09 Aug	N12W64	78	50	3	Cso	2	B											
								1	0	0	5	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 78



### *Region Summary - continued*

Date	Location		Sunspot Characteristics				Flares										
	Lat CMD	Lon	Area 10 <sup>6</sup> hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical						
								C	M	X	S	1	2	3	4		
<b>Region 2395</b>																	
03 Aug	N11E63	30	30	2	Hsx	1	A										
04 Aug	N12E51	29	30	1	Hsx	1	A										
05 Aug	N12E37	30	30	1	Hsx	1	A										
06 Aug	N12E25	29	20	1	Hax	1	A										
07 Aug	N12E12	28	10	1	Hrx	1	A										
08 Aug	N12W01	28	0	1	Axx	1	A										
09 Aug	N12W15	29	plage														
								0	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 28

<b>Region 2396</b>																	
03 Aug	S16E56	37	10	2	Hax	4	A										
04 Aug	S18E42	37	80	8	Dai	7	B					1					
05 Aug	S17E28	39	260	8	Dkc	20	BG					9					
06 Aug	S17E15	39	550	11	Ekc	20	BG	3				9					
07 Aug	S17E02	38	710	11	Ekc	23	BG	10				13					
08 Aug	S17W11	38	800	11	Ekc	23	B	4				3					
09 Aug	S17W24	38	840	12	Ekc	43	B	1				1					
								18	0	0	36	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 38

<b>Region 2397</b>																	
05 Aug	S12W36	102	20	4	Cro	3	B										
06 Aug	S11W54	105	10	1	Hax	1	A										
07 Aug	S12W69	109	10	1	Hax	1	A										
08 Aug	S12W83	110	10	1	Axx	1	A										
								0	0	0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 102

<b>Region 2398</b>																	
07 Aug	N15E60	340	30	1	Hax	1	A										
08 Aug	N15E47	340	20	2	Hax	2	A										
09 Aug	N15E33	341	10	1	Hrx	1	A										
								0	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 341

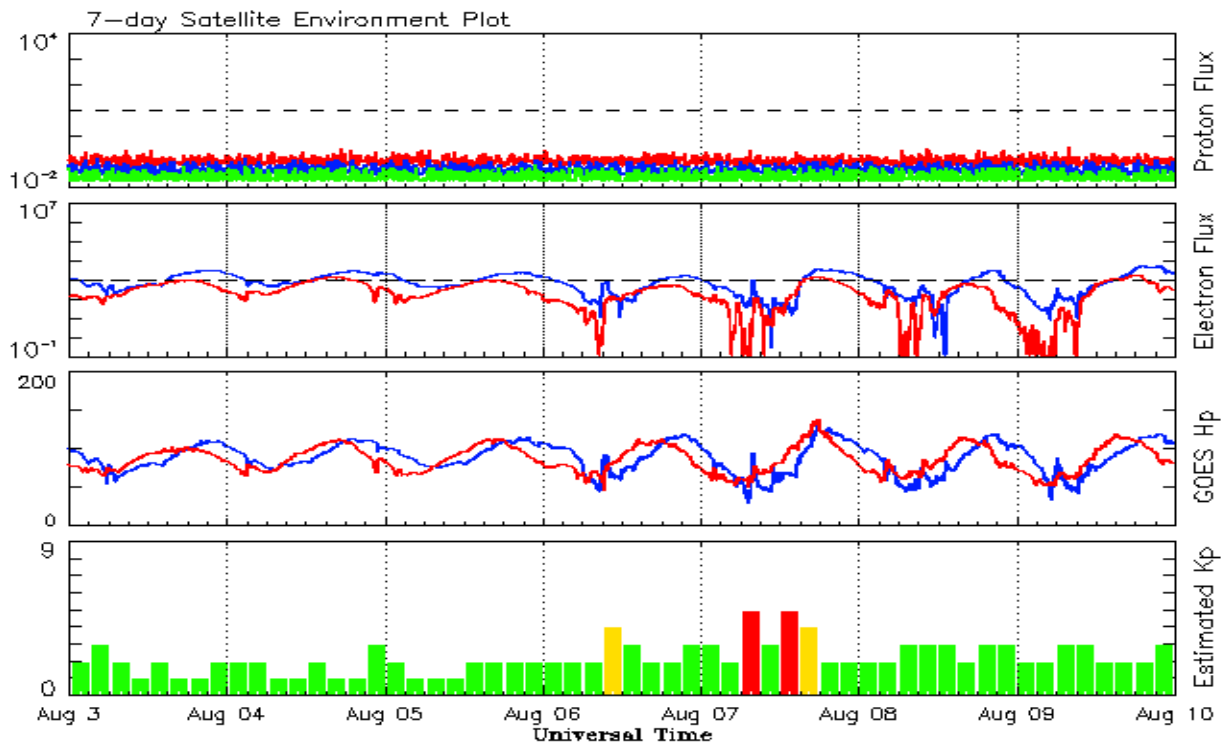


**Recent Solar Indices (preliminary)**  
**Observed monthly mean values**

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
<b>2013</b>									
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
<b>2014</b>									
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	78.3	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	122.3	80.5	130.0	144.7	7	7.9
June	107.7	71.0	0.66	121.4	79.7	122.2	145.5	7	8.4
July	113.6	72.4	0.64	120.4	78.5	137.3	145.2	5	8.8
August	106.2	74.6	0.70	115.1	75.5	124.7	142.8	9	8.9
September	127.4	87.6	0.69	107.4	70.8	146.1	140.1	11	9.3
October	92.0	60.6	0.66	101.7	67.3	153.7	138.4	10	9.9
November	101.8	70.2	0.69	97.9	65.4	155.3	137.4	10	10.1
December	120.0	76.7	0.65	95.2	56.0	158.7	137.0	12	10.5
<b>2015</b>									
January	101.2	67.0	0.66	92.1	53.9	141.7	135.8	10	11.0
February	70.6	44.8	0.63			128.8		10	
March	61.7	38.4	0.62			126.0		17	
April	72.5	54.4	0.75			129.2		12	
May	83.0	58.8	0.71			120.1		9	
June	77.3	41.0	0.53			123.2		14	
July	68.4	39.8	0.58			107.0		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 August 2015*

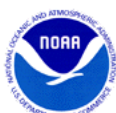
The proton flux plot contains the five-minute averaged integral proton flux (protons/cm<sup>2</sup>-sec -sr) as measured by the SWPC Primary GOES satellite, near West 75, for each of three energy thresholds: greater than 10, 50, and 100 MeV.

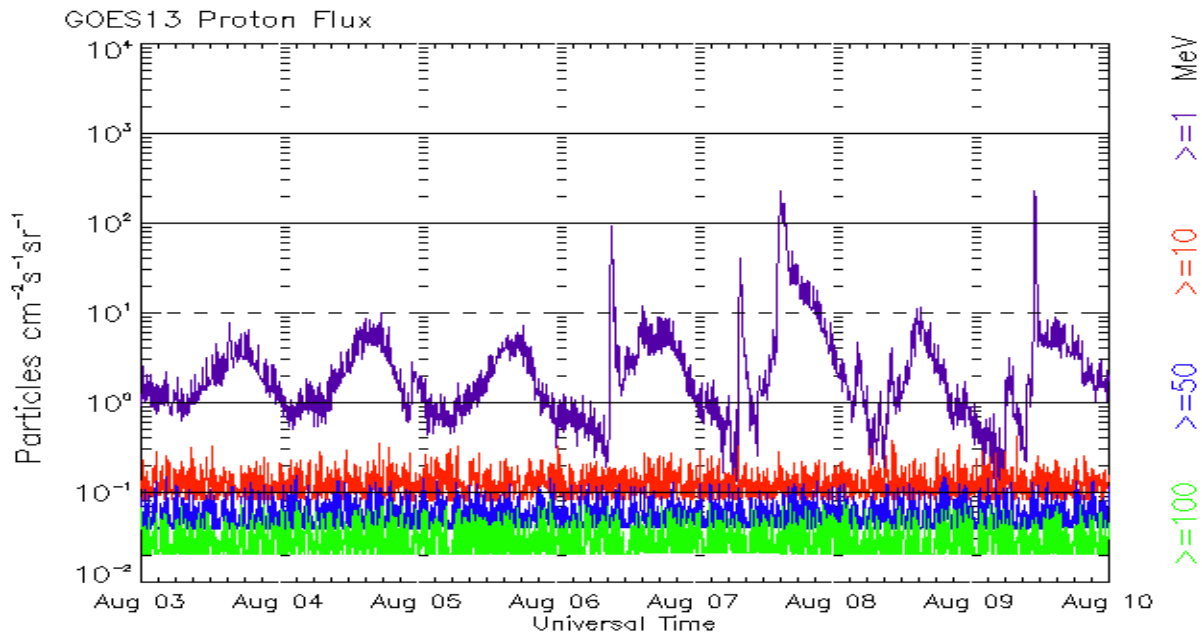
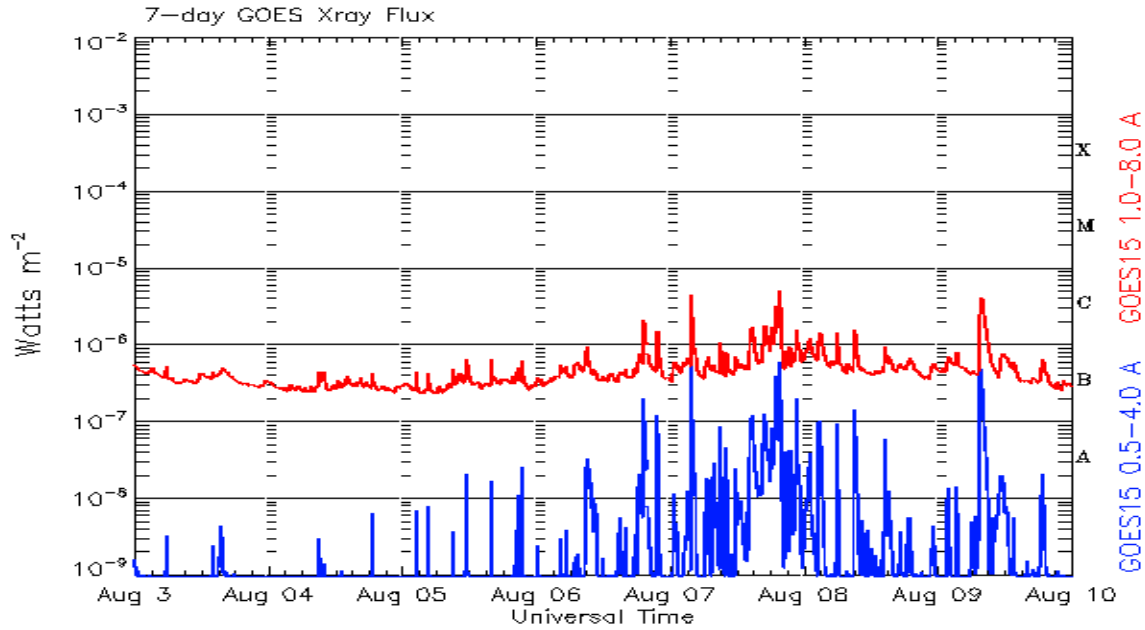
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm<sup>2</sup>-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 August 2015*

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.



## ***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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