

Solar activity was at low levels this period with only C-class flares observed. Region 2104 (S10, L=270, class/area=Dki/260 on 29 Jun) produced the largest event of the period, a C4 flare at 29/1152 UTC.

Among regions that were in transit across the visible disk this period, Region 2096 (N09, L=357, class/area=Cao/120 on 25 Jun) and Region 2104 were the most productive.

Region 2096 was the primary flare producer throughout the period, totaling seven C-class flares with a C2 flare at 26/0918 UTC being the largest. Late in the period, Region 2104 emerged onto the visible disk and produced nine C-class flares in a two day time span.

On 23 June, an approximately 5 degree long filament was seen in SDO/AIA 304 imagery erupting near S18E10. On 25 June, an approximately 23 degree long filament, centered near N20E18, was observed lifting off the disk in SDO/AIA 304 imagery. Analysis of the WSA-Enlil runs for each associated coronal mass ejection (CME), indicated a trajectory too far off of the ecliptic plane to have appreciable impacts at Earth.

On 23 June at 2202 UTC an interplanetary shock was observed at the ACE spacecraft indicating the arrival of the 19 June filament eruption. The total interplanetary magnetic field increased from 2 nT to 5 nT with solar wind speed increasing from 320 km/s to 392 km/s. A geomagnetic sudden impulse of 34 nT was observed at the Boulder magnetometer at 23/2308 UTC. The geomagnetic field saw quiet to unsettled activity as a result of this transient.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal levels throughout the period, reaching a maximum value of 160 pfu at 23/1700 UTC.

Geomagnetic field activity was predominately quiet with periods of unsettled conditions on 23-24 June and 28-29 June.

Space Weather Outlook **30 June - 26 July 2014**

Solar activity is expected to be low with a chance for M-class (R1-R2 (Minor-Moderate)) flare activity throughout the outlook period due to Region 2104 (S10, L=270), Region 2106 (N15, L=261), Region 2107 (S20, L=259), and with the return of old region 2087 (S18, L=155).

No proton events are expected at geosynchronous orbit.

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

Geomagnetic field activity is expected to be predominately quiet throughout the period with the



exceptions of unsettled conditions on 2-3 July, 11 July, 14-17 July and isolated active conditions on 15 July due to anticipated effects from a recurrent coronal hole high-speed stream (CH HSS).



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
23 June	93	64	170	B1.6	1	0	0	1	0	0	0	0
24 June	94	37	130	B1.7	2	0	0	1	0	0	0	0
25 June	97	52	240	B1.8	0	0	0	4	0	0	0	0
26 June	100	72	240	B2.3	2	0	0	2	0	0	0	0
27 June	104	78	150	B4.6	0	0	0	2	0	0	0	0
28 June	115	89	230	B6.2	11	0	0	2	0	0	0	0
29 June	126	112	660	B6.8	14	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
	23 June	5.9e+04	9.5e+03	2.3e+03		7.8e+06
24 June	7.2e+04	9.8e+03	2.5e+03		1.6e+06	
25 June	1.2e+05	1.0e+04	2.5e+03		1.2e+06	
26 June	6.9e+04	1.0e+04	2.4e+03		9.4e+05	
27 June	8.5e+04	1.0e+04	2.5e+03		1.2e+06	
28 June	7.1e+04	1.0e+04	2.5e+03		1.0e+06	
29 June	6.7e+04	1.0e+04	2.4e+03		1.1e+06	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	23 June	7	1-0-0-1-3-2-1-4	1	0-0-0-0-0-0-0-2	5
24 June	7	2-3-2-1-2-1-2-1	5	3-2-3-1-0-1-0-0	6	3-3-2-1-1-1-2-1
25 June	8	1-1-2-2-2-3-2-3	4	0-1-3-2-0-1-0-1	6	1-1-2-2-1-2-2-2
26 June	7	1-0-1-3-3-2-2-1	6	0-0-0-3-4-1-0-0	5	1-1-1-2-2-1-1-1
27 June	4	1-1-0-1-2-1-2-2	2	1-0-0-1-1-0-1-1	4	1-1-0-1-1-1-2-1
28 June	6	1-1-1-2-3-2-2-1	16	1-2-1-3-5-5-0-0	6	1-2-1-2-3-2-2-1
29 June	7	2-2-2-1-2-1-2-3	5	2-1-2-1-2-0-1-2	8	3-2-2-1-1-1-2-3

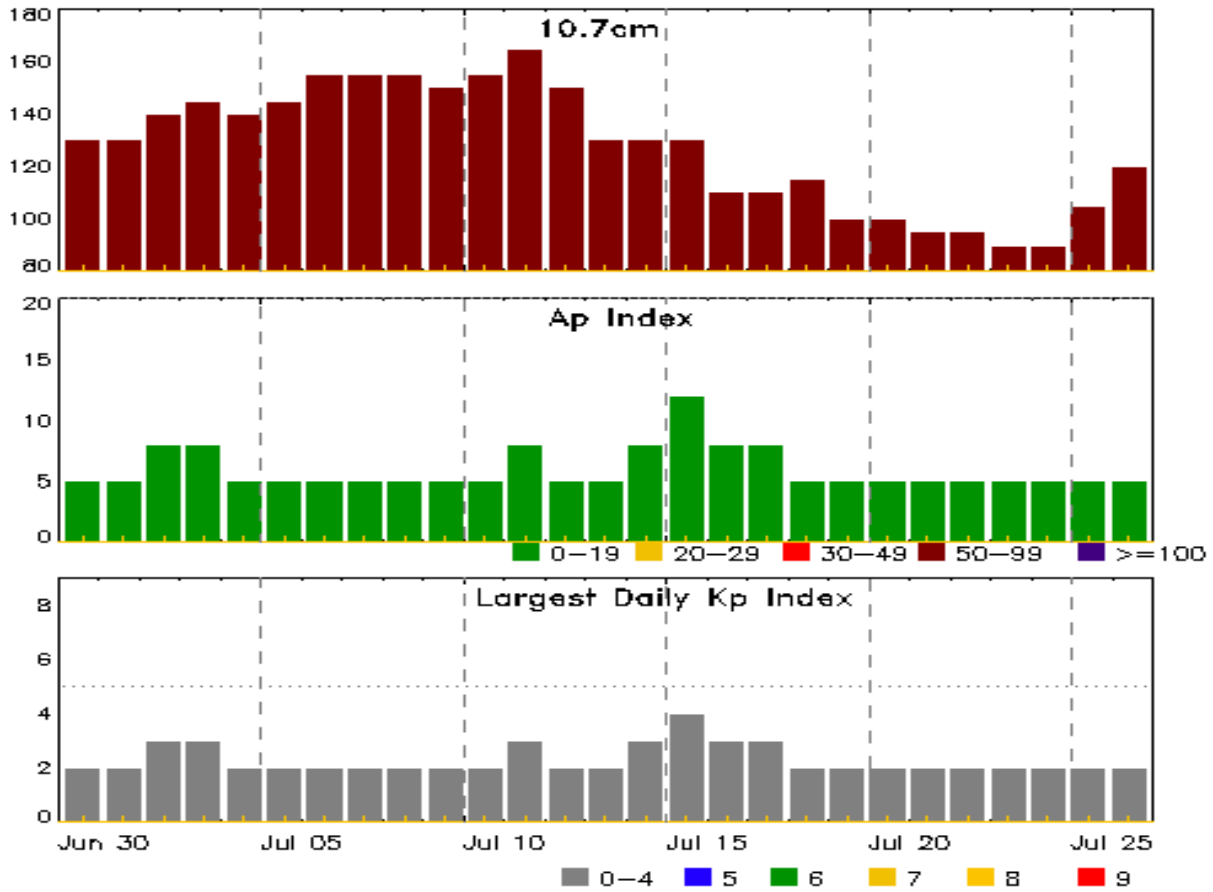


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
23 Jun 2210	WARNING: Geomagnetic Sudden Impulse expected	23/2250 - 2325
23 Jun 2218	WARNING: Geomagnetic K = 4	23/2250 - 24/0400
23 Jun 2323	SUMMARY: Geomagnetic Sudden Impulse	23/2308
24 Jun 0353	EXTENDED WARNING: Geomagnetic K = 4	23/2250 - 24/1300
28 Jun 1231	ALERT: Type II Radio Emission	28/0746
28 Jun 1545	WARNING: Geomagnetic K = 4	28/1545 - 29/0700



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
30 Jun	130	5	2	14 Jul	130	8	3
01 Jul	130	5	2	15 Jul	130	12	4
02 Jul	140	8	3	16 Jul	110	8	3
03 Jul	145	8	3	17 Jul	110	8	3
04 Jul	140	5	2	18 Jul	115	5	2
05 Jul	145	5	2	19 Jul	100	5	2
06 Jul	155	5	2	20 Jul	100	5	2
07 Jul	155	5	2	21 Jul	95	5	2
08 Jul	155	5	2	22 Jul	95	5	2
09 Jul	150	5	2	23 Jul	90	5	2
10 Jul	155	5	2	24 Jul	90	5	2
11 Jul	165	8	3	25 Jul	105	5	2
12 Jul	150	5	2	26 Jul	120	5	2
13 Jul	130	5	2				



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	Optical Location Lat CMD	Rgn #
	Begin	Max	End				
23 Jun	0019	0101	0118	B3.7			2096
23 Jun	0444	0448	0455	B4.2			2092
23 Jun	0723	0733	0739	B4.6			2087
23 Jun	1325	1330	1333	B5.3			
23 Jun	1414	1444	1448	C1.0			2093
23 Jun	1519	1522	1524		SF	N17E72	2097
23 Jun	1642	1645	1647	B4.5			2096
24 Jun	0008	0029	0046	C2.1			2092
24 Jun	1028	1042	1100	B6.8			
24 Jun	1155	1202	1211	B3.6			
24 Jun	1338	1343	1347	B4.3			
24 Jun	1547	1554	1603	B6.3			2096
24 Jun	1837	1844	1847	B9.7	SF	N10E48	2096
24 Jun	2056	2103	2107	C1.2			2096
25 Jun	0535	0540	0543	B9.6	SF	N09E43	2096
25 Jun	0610	0630	0641	B6.4	SF	N09E42	2096
25 Jun	0753	0804	0826		SF	N09E42	2096
25 Jun	1023	1030	1041	B5.5			2096
25 Jun	1506	1507	1511		SF	N10E36	2096
25 Jun	1850	1900	1908	B5.2			
26 Jun	0237	0242	0249	B5.2	SF	N09E33	2096
26 Jun	0728	0736	0741	B3.1	SF	N10E29	2096
26 Jun	0910	0918	0930	C2.2			2096
26 Jun	2145	0114	0322	C1.6			
27 Jun	0356	0357	0359		SF	N12E68	
27 Jun	1451	1454	1504		SF	N08E12	2096
27 Jun	2033	2102	2123	B9.7			2096
28 Jun	0020	0044	0104	C1.4	SF	N08E51	2100
28 Jun	0149	0203	0214	C1.5			2100
28 Jun	0616	0701	0715	C3.4			
28 Jun	0736	0744	0749	C3.4			2104



Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical		Rgn #
	Begin	Max	End			Location Lat CMD		
28 Jun	0822	0838	0919	C1.1	SF	N09E05		2096
28 Jun	1238	1246	1256	C1.2				
28 Jun	1509	1514	1520	C1.0				2104
28 Jun	1527	1536	1546	C1.0				2104
28 Jun	1900	1908	1915	C1.2				
28 Jun	1950	2105	2124	C4.2				
28 Jun	2325	2333	2342	C3.6				2104
29 Jun	0005	0010	0014	C1.5				2104
29 Jun	0216	0218	0221		SF	N10E39		2100
29 Jun	0438	0444	0452	C1.1				2096
29 Jun	0440	0441	0443		SF	S12E78		2104
29 Jun	0445	0449	0515		SF	N11W11		2096
29 Jun	0522	0528	0532	C1.6				2106
29 Jun	0718	0721	0724	C1.5	SF	S12E75		2104
29 Jun	0759	0806	0814	C1.8				2096
29 Jun	0923	0924	0932		SF	N11E34		2100
29 Jun	1025	1031	1041	C1.1	SF	S10E71		2104
29 Jun	1136	1152	1202	C4.9				2104
29 Jun	1445	1447	1453		SF	N10E30		2100
29 Jun	1506	1509	1515	C1.8	SF	S18E80		2107
29 Jun	1519	1529	1542	C1.8				2100
29 Jun	1734	1740	1747	C1.0				2106
29 Jun	1803	1806	1808	C1.2				2096
29 Jun	2011	2018	2023	C1.5	SF	S12E65		2104
29 Jun	2148	2152	2159	C1.2				2096
29 Jun	2318	2322	2328	C1.2				



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	4							
Region 2087																							
10 Jun	S18E71		154	100	8	Dai	5	BD	4		2	2	1										
11 Jun	S18E56		156	180	7	Dsc	10	BG	5	2	1	8		2									
12 Jun	S18E43		156	200	10	Dac	14	BGD	3	4		17	1										
13 Jun	S18E30		155	220	11	Eac	27	BGD	6	1		8	3										
14 Jun	S18E16		155	180	8	Dai	24	BG	1			1											
15 Jun	S18E03		156	150	7	Dso	5	B	2	1		1											
16 Jun	S18W08		153	110	6	Csi	9	B	3			3											
17 Jun	S19W22		154	150	7	Dsc	8	BG	1			2											
18 Jun	S20W35		155	150	6	Dsc	9	B	2			2											
19 Jun	S20W49		155	130	7	Dso	8	B				2											
20 Jun	S20W62		155	90	5	Dso	3	B	1														
21 Jun	S19W76		156	80	3	Cao	2	B															
22 Jun	S18W90		157	60	3	Cso	2	B															
									29	8	3	46	5	2	0	0							

Crossed West Limb.

Absolute heliographic longitude: 156

Region 2090

11 Jun	N24E65		147	80	2	Hsx	1	A														
12 Jun	N24E56		143	120	10	Dso	2	B														
13 Jun	N24E44		141	170	10	Dso	4	B														
14 Jun	N24E30		143	120	11	Cso	3	B														
15 Jun	N24E18		141	130	11	Cso	3	B														
16 Jun	N24E02		143	120	2	Hsx	1	A														
17 Jun	N24W12		144	110	2	Hsx	1	A														
18 Jun	N24W25		145	110	2	Hsx	1	A														
19 Jun	N25W38		144	90	2	Hsx	1	A														
20 Jun	N25W52		145	90	2	Hsx	1	A														
21 Jun	N25W65		145	60	2	Hsx	1	A														
22 Jun	N25W78		145	80	2	Hsx	1	A														
23 Jun	N25W90		143	30	2	Hsx	1	A														
									0	0	0	0	0	0	0	0	0					

Crossed West Limb.

Absolute heliographic longitude: 143



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 2092																		
12 Jun	S19E59	140	50	6	Cso	8	B											
13 Jun	S19E46	139	30	6	Dro	12	B	1				5						
14 Jun	S19E33	140	10	5	Bxo	6	B					2						
15 Jun	S20E19	140	10	5	Bxo	4	B	1				1						
16 Jun	S20E05	141	plage									1						
17 Jun	S21W08	140	10	2	Bxi	5	B											
18 Jun	S20W23	143	20	4	Cro	5	B											
19 Jun	S21W35	141	20	5	Cro	6	B											
20 Jun	S18W49	142	20	3	Cro	4	B											
21 Jun	S18W63	143	30	3	Cao	3	B											
22 Jun	S19W74	141	20	2	Cro	3	B											
23 Jun	S19W88	141	plage															
								2	0	0	9	0	0	0	0	0		

Crossed West Limb.
Absolute heliographic longitude: 141

Region 2093																		
16 Jun	S12E62	83	70	7	Dso	5	B											
17 Jun	S10E50	81	60	9	Cso	5	B	2				1						
18 Jun	S10E35	85	50	13	Cao	8	B	1					1					
19 Jun	S10E21	85	60	13	Eao	11	B	1				2						
20 Jun	S09E08	85	60	11	Cao	16	BG	3				4	1					
21 Jun	S09W06	86	60	5	Dao	17	BG	2				10	1					
22 Jun	S09W18	85	50	12	Eao	14	BG					1						
23 Jun	S09W32	85	20	12	Cro	8	B	1										
24 Jun	S09W46	86	plage															
25 Jun	S11W53	80	10	1	Axx	2	A											
26 Jun	S09W77	83	40	11	Cao	3	B											
								10	0	0	18	3	0	0	0	0		

Died on Disk.
Absolute heliographic longitude: 86



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 2094																		
16 Jun	S18E67		78	60	1	Hsx	1	A										
17 Jun	S19E56		76	90	2	Hsx	1	A										
18 Jun	S18E43		77	90	2	Hsx	1	A										
19 Jun	S18E30		76	90	2	Hsx	2	A										
20 Jun	S18E17		76	80	2	Hax	1	A					1					
21 Jun	S18E02		78	80	2	Hax	2	A										
22 Jun	S18W10		77	20	3	Cro	3	B										
23 Jun	S18W23		76	10	3	Axx	3	A										
24 Jun	S18W37		77	plage														
25 Jun	S18W51		78	plage														
26 Jun	N11W68		81	10	1	Axx	1	A										
27 Jun	S18W82		82	plage														
										0	0	0	1	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 78

Region 2096																		
22 Jun	N09E70		357	60	3	Hsx	1	A										
23 Jun	N08E56		357	80	3	Hsx	1	A										
24 Jun	N09E42		358	80	2	Hax	2	A	1				1					
25 Jun	N09E30		357	120	3	Cao	3	B						4				
26 Jun	N09E18		355	70	6	Cao	7	B	1					2				
27 Jun	N09E04		356	70	6	Cao	7	B						1				
28 Jun	N09W10		357	70	5	Cso	5	B	1					1				
29 Jun	N09W24		358	70	4	Cao	5	B	4					1				
									7	0	0	10	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 356



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 2097																							
22 Jun	N13E76	351	30	2	Hax	1	A																
23 Jun	N13E62	351	30	2	Hax	1	A						1										
24 Jun	N12E49	351	30	2	Hax	1	A																
25 Jun	N12E35	352	50	1	Hsx	1	A																
26 Jun	N12E23	350	40	1	Hax	1	A																
27 Jun	N12E09	351	20	1	Hax	1	A																
28 Jun	N13W03	350	30	2	Hax	1	A																
29 Jun	N13W17	351	30	1	Hsx	1	A																
													0	0	0	1	0	0	0	0	0	0	

Still on Disk.
 Absolute heliographic longitude: 350

Region 2098																							
24 Jun	S09E18	22	20	3	Dro	4	B																
25 Jun	S08E04	23	60	3	Dao	6	B																
26 Jun	S08W09	22	80	3	Dao	10	B																
27 Jun	S08W21	21	30	7	Cao	4	B																
28 Jun	S09W35	22	10	1	Hrx	1	A																
29 Jun	S09W49	23	plage																				
													0	0	0	0	0	0	0	0	0	0	

Still on Disk.
 Absolute heliographic longitude: 23

Region 2099																							
27 Jun	S17W05	5	10	2	Bxo	2	B																
28 Jun	S16W19	6	plage																				
29 Jun	S16W33	7	plage																				
													0	0	0	0	0	0	0	0	0	0	

Still on Disk.
 Absolute heliographic longitude: 5

Region 2100																							
27 Jun	N10E52	308	10	7	Bxo	3	B																
28 Jun	N11E39	308	10	8	Bxo	5	B	2					1										
29 Jun	N11E25	309	10	8	Bxo	5	B	1					3										
								3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	

Still on Disk.
 Absolute heliographic longitude: 309



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

Region 2101

27 Jun	S06W16	16	10	1	Axx	1	A										
28 Jun	S07W30	17	plage														
29 Jun	S07W45	19	plage														
								0	0	0	0	0	0	0	0	0	

Still on Disk.
Absolute heliographic longitude: 16

Region 2102

28 Jun	N11E65	282	20	1	Hax	1	A										
29 Jun	N11E51	283	10	1	Axx	1	A										
								0	0	0	0	0	0	0	0	0	

Still on Disk.
Absolute heliographic longitude: 283

Region 2103

28 Jun	S10E52	295	10	2	Axx	2	A										
29 Jun	S10E38	296	plage														
								0	0	0	0	0	0	0	0	0	

Still on Disk.
Absolute heliographic longitude: 296

Region 2104

28 Jun	S10E78	269	80	4	Dao	4	B	4									
29 Jun	S10E64	270	260	7	Dki	7	B	5				4					
								9	0	0	4	0	0	0	0	0	

Still on Disk.
Absolute heliographic longitude: 270

Region 2105

29 Jun	S07E24	310	10	3	Cro	3	B										
								0	0	0	0	0	0	0	0	0	

Still on Disk.
Absolute heliographic longitude: 310



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

Region 2106

29 Jun	N15E73	261	20	3	Cro	4	B	2									
								2	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 261

Region 2107

29 Jun	S20E75	259	250	7	Dhi	6	B	1			1						
								1	0	0	1	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 259

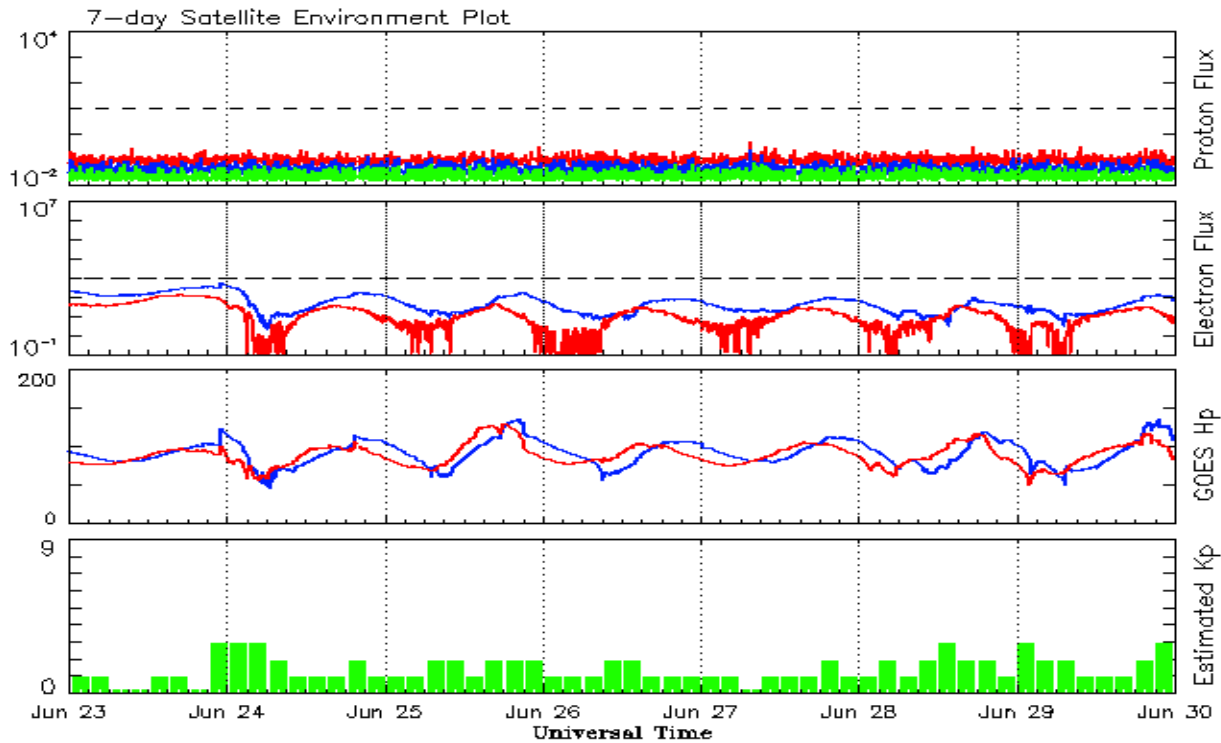


Recent Solar Indices (preliminary)
Observed monthly mean values

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									
June	88.6	64.5	0.73	83.9	58.9	120.5	121.1	10	8.3
July	99.6	66.5	0.67	82.4	57.8	135.6	119.5	13	8.3
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	69.0	114.7	127.9	9	7.6
September	55.0	37.0	0.67	111.0	73.1	102.7	132.3	5	7.8
October	127.1	85.6	0.67	114.3	75.0	132.3	134.7	7	7.8
November	125.7	77.6	0.62	114.6	75.4	148.4	135.4	5	7.9
December	118.2	90.3	0.76			147.7		5	
2014									
January	125.9	82.0	0.65			158.6		6	
February	174.6	102.8	0.59			170.3		12	
March	141.1	92.2	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	

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 23 June 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.

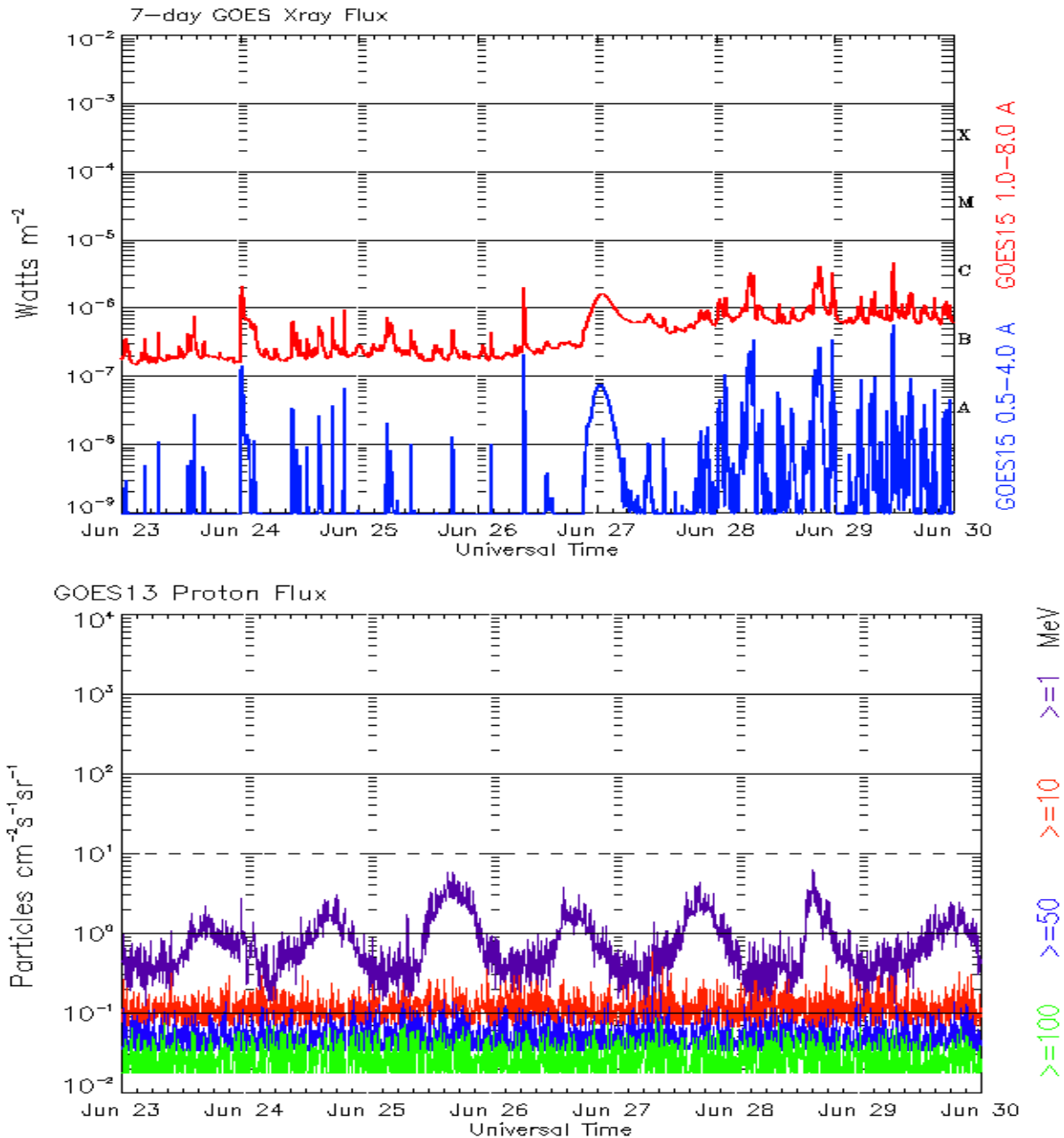
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 23 June 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.



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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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