

Solar activity was low. The largest flare of the week was a C9, with no optical counterpart, produced by Region 2035 (S18, L=222, class/area=Eai/210 on 13 Apr) on 11 Apr at 1124 UTC. The same region produced a C5 flare at 11/1501 UTC. A small CME, most likely associated with the C9 event, was visible in LASCO C2 coronagraph imagery at 11/1212 UTC but was directed well south and east of the ecliptic plane. A much larger CME associated with the C5 flare was observed in LASCO C2 imagery at 11/1448 UTC. The CME was also on the east limb and the majority of the ejecta was directed away from Earth. Region 2035 began as a plage area on 09 Apr and by the 11th had grown to a Dao Beta-type group with 2 spots. It developed a beta-gamma magnetic configuration on the 12th.

In addition to CMEs associated with the week's largest flares, others accompanied filament eruptions. A 9 degree filament eruption was observed near S23E25 at 10/0004 UTC. An associated CME occurred off the southeast limb with an estimated speed of 298 km/s. Around the same time, Region 2031 (N03, L=30, class/area=Dao/50 on 08 April) produced a C1/Sf flare at 10/0013 UTC and a slow, westward-directed coronal mass ejection (CME) with coronal dimming visible in SDO/AIA imagery. Analysis suggested a speed near 330 km/s. A Type II radio sweep (1109 km/s) was also observed between 10/0010-0022 UTC. A 14 degree filament centered near S35W48 disappeared at 10/0622 UTC with no apparent CME in LASCO imagery. Neither these CMEs, nor others occurring throughout the week, were judged to be particularly geoeffective.

No proton events were observed at geosynchronous orbit, however, the week began with slightly elevated flux levels (<1 pfu) in the wake of an M6 flare the previous week. By 09 April, flux had returned to background levels.

The greater than 2 MeV electron flux at geosynchronous orbit was normal to moderate throughout the week.

Geomagnetic field activity began the week at unsettled to active levels on 07 April attributed to the muted effects of transient features. Activity remained at quiet levels from 08 April through late on 11 April. Late on the 10th, around 1928 UTC, there was a modest increase in solar wind speed from 350-400 km/s. The brief episode of increased winds was followed by a jump in density and accompanied by fluctuations in Phi angle. Over the next 36 hours, Phi exhibited a smooth rotation from a positive to a negative orientation. Bz began to plunge southward around 11/0940 UTC, reaching a minimum of about -10 nT by 12/0800 UTC. Bt reached a maximum near 12 nT by 12/1406 UTC. Throughout the 11th and 12th, solar wind speed continued to decline, reaching a minimum of 316 km/s at 12/1331 UTC. The planetary geomagnetic field responded to the nearly 24 hours of southward Bz with minor storm conditions ($K_p=5$) from 00-09 UTC on 12 April and a major storm period observed at College (Fairbanks), AK. The remainder of the 12th saw quiet to unsettled conditions. Late on the 12th, temperature and wind speed began to rise signaling the end of the transient feature and the beginning of the influence of a weak negative polarity coronal hole high speed stream. Active conditions returned for the first



two synoptic periods of the 13th followed by quiet to unsettled levels of activity.

Space Weather Outlook
14 April - 10 May 2014

Solar activity is expected to be low with a chance for moderate events throughout the forecast period. There is a chance for high levels of activity on 25 April through 08 May with the return of Old Region 2027.

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.

Geomagnetic field activity is expected to be at quiet to unsettled levels, in the absence of any transient features, throughout the forecast period.



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
07 April	140	106	420	B5.5	5	0	0	2	1	0	0	0
08 April	132	94	440	B3.5	1	0	0	0	0	0	0	0
09 April	131	95	430	B5.1	3	0	0	1	0	0	0	0
10 April	137	78	420	B8.0	4	0	0	3	0	0	0	0
11 April	138	83	660	B6.2	7	0	0	1	0	0	0	0
12 April	136	74	710	B5.7	2	0	0	0	0	0	0	0
13 April	137	95	740	B4.4	4	0	0	3	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
	07 April	3.7e+06	3.8e+04	2.4e+03		9.9e+04
08 April	2.1e+06	2.7e+04	2.4e+03		7.9e+04	
09 April	6.6e+05	1.5e+04	2.3e+03		9.2e+04	
10 April	2.5e+05	1.2e+04	2.3e+03		4.5e+05	
11 April	3.3e+05	1.1e+04	2.5e+03		3.4e+05	
12 April	2.6e+05	1.0e+04	2.5e+03		3.0e+04	
13 April	1.6e+05	1.0e+04	2.6e+03		4.6e+05	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	07 April	10	2-0-2-2-3-4-2-2	16	1-1-1-2-4-6-1-1	11
08 April	4	2-1-0-2-2-2-1-0	4	1-1-0-2-3-0-0-0	5	2-1-0-2-2-1-1-0
09 April	5	0-1-2-2-2-2-2-1	6	0-0-2-2-4-2-1-0	5	1-1-2-2-2-2-2-1
10 April	4	0-0-0-2-2-2-2-1	1	0-0-1-1-0-0-0-0	3	0-1-1-1-1-0-1-0
11 April	7	0-2-2-2-2-2-2-3	5	0-0-2-1-2-3-2-1	8	1-2-2-2-1-2-2-3
12 April	16	4-3-3-3-3-3-3-2	37	4-4-5-4-7-3-2-2	25	5-5-5-3-3-2-3-3
13 April	13	3-3-3-3-3-2-3-2	21	3-4-5-5-3-2-2-1	16	4-4-3-3-2-2-3-2

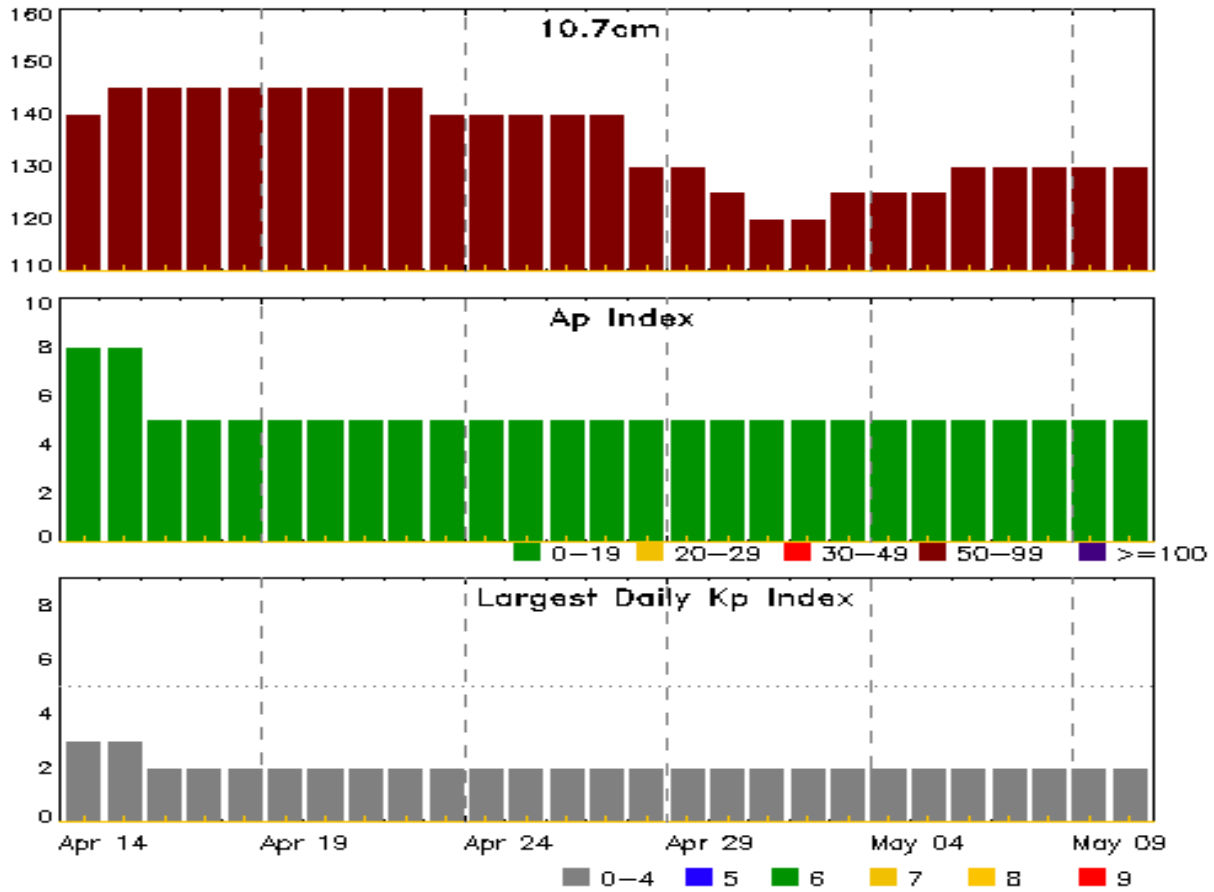


Alerts and Warnings Issued

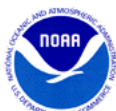
Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
07 Apr 1549	WARNING: Geomagnetic K = 4	07/1545 - 2200
07 Apr 1556	ALERT: Geomagnetic K = 4	07/1551
10 Apr 0052	ALERT: Type II Radio Emission	10/0010
11 Apr 2121	WARNING: Geomagnetic K = 4	11/2120 - 12/1300
12 Apr 0113	ALERT: Geomagnetic K = 4	12/0112
12 Apr 0113	WARNING: Geomagnetic K = 5	12/0113 - 0400
12 Apr 0118	ALERT: Geomagnetic K = 5	12/0118
12 Apr 0515	WARNING: Geomagnetic K = 5	12/0515 - 1300
12 Apr 0522	ALERT: Geomagnetic K = 5	12/0522
12 Apr 1338	WARNING: Geomagnetic K = 4	12/1337 - 2300
12 Apr 2255	EXTENDED WARNING: Geomagnetic K = 4	12/1337 - 13/0700
13 Apr 0217	ALERT: Geomagnetic K = 4	13/0217
13 Apr 0611	EXTENDED WARNING: Geomagnetic K = 4	12/1337 - 13/1300
13 Apr 1300	EXTENDED WARNING: Geomagnetic K = 4	12/1337 - 13/1600



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
14 Apr	140	8	3	28 Apr	130	5	2
15	145	8	3	29	130	5	2
16	145	5	2	30	125	5	2
17	145	5	2	01 May	120	5	2
18	145	5	2	02	120	5	2
19	145	5	2	03	125	5	2
20	145	5	2	04	125	5	2
21	145	5	2	05	125	5	2
22	145	5	2	06	130	5	2
23	140	5	2	07	130	5	2
24	140	5	2	08	130	5	2
25	140	5	2	09	130	5	2
26	140	5	2	10	130	5	2
27	140	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	Location Lat CMD	Rgn #
	Begin	Max	End				
07 Apr	0247	0253	0300	C1.1			2021
07 Apr	0333	0341	0357	C1.9			2031
07 Apr	B0557	U0632	0737	C4.0	1N	S13W21	2026
07 Apr	1320	1336	1446	C1.7	SF	S11W23	2026
07 Apr	1406	1414	1441		SF	S11W26	2026
07 Apr	2043	2124	2158	C1.7			2026
08 Apr	1836	1851	1921	B9.1			2026
08 Apr	2345	2350	2353	B9.6			2031
08 Apr	2358	0004	0017	C1.2	SF	N05W51	2031
09 Apr	1808	1853	1944	C1.9			2035
09 Apr	2044	2124	2154	C2.1			2035
09 Apr	2343	0013	0024	C1.2			2030
10 Apr	0004	0006	0007		SF	N10W37	2030
10 Apr	0008	0010	0053		SF	N10W37	2030
10 Apr	0122	0152	0211	C4.7			2035
10 Apr	0846	1053	1121	C1.9			2035
10 Apr	1447	1517	1545	C1.4			2035
10 Apr	1749	1817	1856	C3.6			2035
10 Apr	1945	1945	1948		SF	N02E73	2034
11 Apr	0012	0016	0021	C2.7			2035
11 Apr	0039	0044	0046	C2.6			2035
11 Apr	0246	0249	0259	C1.7			2035
11 Apr	0922	0929	0936	C1.9	SF	S11E23	2028
11 Apr	1117	1124	1132	C9.4			2035
11 Apr	1414	1501	1520	C5.3			2035
11 Apr	1910	1925	1939	C1.5			2035
12 Apr	0456	0512	0533	C1.0			2035
12 Apr	0715	0727	0807	C5.0			2035
12 Apr	1438	1441	1444	B8.5			
12 Apr	1539	1620	1634	B8.1			2032
12 Apr	1701	1728	1740	B8.3			2027



Flare List

Date	Time			X-ray Class	Optical			Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD		
12 Apr	1747	1751	1754	B8.2				2035
12 Apr	1913	1932	1945	B9.0				2035
13 Apr	0242	0245	0252	B8.3				2035
13 Apr	0728	0732	0736	B9.1				2035
13 Apr	1202	1241	1312	C1.1				
13 Apr	2012	2017	2022	C1.9	SF	S10E32		2037
13 Apr	2211	2216	2228	C1.0	SF	S18E28		2036
13 Apr	2258	2307	2310	B9.2				
13 Apr	2346	2352	0000	C3.0	SF	S18E26		2036



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 2021																							
28 Mar	S15E50		73	40	4	Dao	7	B					1										
29 Mar	S15E36		74	50	5	Dao	12	BG															
30 Mar	S15E22		75	100	7	Dai	16	BG															
31 Mar	S14E09		75	160	7	Dai	18	BG					2										
01 Apr	S14W05		76	220	7	Dai	18	BG					2										
02 Apr	S13W17		75	330	7	Dki	12	BG															
03 Apr	S13W30		74	320	8	Dki	14	B					1										
04 Apr	S13W44		75	320	8	Dkc	29	BGD	1										1				
05 Apr	S13W56		74	310	8	Dki	28	B	1														
06 Apr	S13W68		73	90	7	Dso	8	B															
07 Apr	S13W82		74	60	7	Cso	7	B	1														
									3	0	0	6	0	1	0	0							

Crossed West Limb.
Absolute heliographic longitude: 76

Region 2022																							
28 Mar	N16E64		59	60	3	Hsx	1	A															
29 Mar	N16E50		60	50	2	Hax	1	A															
30 Mar	N16E36		61	40	1	Hsx	1	A															
31 Mar	N17E24		60	30	1	Hsx	1	A					1										
01 Apr	N17E10		61	30	1	Hsx	1	A	2				1										
02 Apr	N17W03		61	20	1	Hsx	1	A															
03 Apr	N18W17		61	10	1	Hrx	1	A															
04 Apr	N17W31		62	10	6	Axx	3	A															
05 Apr	N17W44		62	0	1	Axx	1	A															
06 Apr	N17W58		63	plage																			
07 Apr	N17W72		64	plage																			
08 Apr	N17W86		64	plage																			
									2	0	0	2	0	0	0	0	0						

Crossed West Limb.
Absolute heliographic longitude: 61



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 2026																							
29 Mar	S11E90		21	plage								1											
30 Mar	S11E76		21	30	3	Bxo	3	B				7											
31 Mar	S11E64		20	120	10	Dai	13	B				4		11									
01 Apr	S11E50		21	130	10	Dai	28	BG				2											
02 Apr	S11E38		20	210	12	Eai	24	BG				5		3									
03 Apr	S11E25		19	230	11	Eac	30	BG				2		2									
04 Apr	S11E11		20	480	12	Ekc	37	BG				2		1									
05 Apr	S11W02		20	260	12	Eki	40	B				2											
06 Apr	S10W17		22	100	14	Esi	14	B															
07 Apr	S12W31		23	80	12	Eso	10	B	3				2	1									
08 Apr	S12W43		21	80	12	Eai	16	B															
09 Apr	S10W58		23	30	7	Cri	9	B															
10 Apr	S09W72		23	10	2	Bxo	4	B															
11 Apr	S08W85		23	10	1	Axx	3	A															
									28	0	0	19	1	0	0	0	0						

Crossed West Limb.

Absolute heliographic longitude: 20

Region 2027

31 Mar	N13E69		15	80	4	Hsx	1	A															
01 Apr	N13E55		16	100	3	Hsx	1	A	2														
02 Apr	N12E42		16	100	3	Hax	1	A	2	1				1									
03 Apr	N13E29		15	110	4	Cao	4	B															
04 Apr	N12E17		14	180	6	Cao	5	B	1					1									
05 Apr	N12E04		14	150	4	Cso	7	B															
06 Apr	N12W10		15	150	4	Cso	7	B															
07 Apr	N12W24		16	150	4	Cso	4	B															
08 Apr	N13W37		15	150	3	Cao	3	B															
09 Apr	N13W48		13	130	3	Cao	3	B															
10 Apr	N13W62		13	120	3	Hax	1	A															
11 Apr	N14W76		14	100	4	Cso	5	B															
12 Apr	N13W91		15	60	3	Hsx	1	A															
									5	1	0	0	1	1	0	0							

Crossed West Limb.

Absolute heliographic longitude: 14



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 2028																		
01 Apr	S08E62		9	30	5	Dao	3	B										
02 Apr	S08E51		7	30	1	Cro	3	B										
03 Apr	S08E37		7	20	8	Cro	2	B										
04 Apr	S07E23		8	10	9	Bxo	6	B										
05 Apr	S08E10		8	10	3	Axx	5	A										
06 Apr	S08W04		9	10	3	Bxo	3	B										
07 Apr	S08W15		7	10	1	Axx	2	A										
08 Apr	S08W29		7	plage														
09 Apr	S08W43		8	plage														
10 Apr	S08W57		8	plage														
11 Apr	S08W69		7	plage					1			1						
12 Apr	S08W83		9	plage					1	0	0	1	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 9

Region 2029																		
01 Apr	N18E42		29	20	1	Hrx	1	A	1									
02 Apr	N17E28		30	30	5	Cao	8	B										
03 Apr	N17E16		28	60	6	Dao	8	B										
04 Apr	N17E01		30	80	7	Dao	8	B	1									
05 Apr	N17W11		29	70	6	Cso	3	B										
06 Apr	N18W25		30	40	2	Hax	2	A										
07 Apr	N18W39		31	30	2	Hax	2	A										
08 Apr	N18W53		31	20	1	Hrx	1	A										
09 Apr	N18W65		30	20	1	Hrx	1	A										
10 Apr	N18W79		30	plage														
									2	0	0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 30



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 2030																	
02 Apr	N10E57		1	20	4	Cro	7	B	2			9					
03 Apr	N11E43		1	50	8	Dao	8	BG	2			2					
04 Apr	N11E30		1	100	9	Dai	16	BG	5			1					
05 Apr	N11E18		359	130	11	Eao	18	B									
06 Apr	N11E04		1	130	11	Dao	18	B									
07 Apr	N10W10		2	40	8	Dao	4	B									
08 Apr	N10W22		360	40	8	Dao	3	B									
09 Apr	N12W34		359	10	3	Bxo	3	B	1								
10 Apr	N12W48		359	plage								2					
11 Apr	N12W62		360	plage													
12 Apr	N12W76		2	plage													
13 Apr	N12W89		1	plage													
									10	0	0	14	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 1

Region 2031

06 Apr	N03W25		30	40	4	Cro	5	B	1			1					
07 Apr	N03W40		32	50	5	Cao	7	B	1								
08 Apr	N03W52		30	50	7	Dao	7	B	1								
09 Apr	N03W64		29	30	7	Cao	4	B				1					
10 Apr	N04W78		29	10	1	Axx	3	A									
									3	0	0	2	0	0	0	0	

Crossed West Limb.

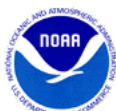
Absolute heliographic longitude: 30

Region 2032

08 Apr	N13E68		270	100	12	Dai	4	B									
09 Apr	N12E54		271	150	8	Dso	4	BG									
10 Apr	N12E39		272	170	12	Eso	4	BG									
11 Apr	N13E26		272	160	8	Dso	7	BG									
12 Apr	N13E12		272	150	9	Cso	6	BG									
13 Apr	N13W01		273	150	3	Hsx	1	A									
									0	0	0	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 273



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 2033

09 Apr	N12E62	263	60	2	Hsx	1	A										
10 Apr	N12E47	264	80	2	Hsx	1	A										
11 Apr	N12E34	264	110	2	Hsx	1	A										
12 Apr	N12E20	264	90	2	Hsx	1	A										
13 Apr	N12E08	264	90	2	Hsx	1	A										
								0	0	0	0	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 264

Region 2034

10 Apr	N04E71	240	30	5	Dro	5	B				1						
11 Apr	N05E57	241	130	9	Dao	5	B										
12 Apr	N04E44	242	220	10	Dai	9	B										
13 Apr	N05E31	241	250	10	Dho	11	BG										
								0	0	0	1	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 241

Region 2035

09 Apr	S15E0*	224	plage								2						
10 Apr	S15E88	224	plage								4						
11 Apr	S15E74	224	150	10	Dao	2	B				6						
12 Apr	S16E62	224	190	11	Eai	7	BG				2						
13 Apr	S18E50	222	210	12	Eai	13	BG										
								14	0	0	0	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 222

Region 2036

13 Apr	S18E25	247	20	3	Dro	5	B	2			2						
								2	0	0	2	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 247

Region 2037

13 Apr	S10E30	242	20	2	Bxo	4	B	1									
								1	0	0	0	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 242

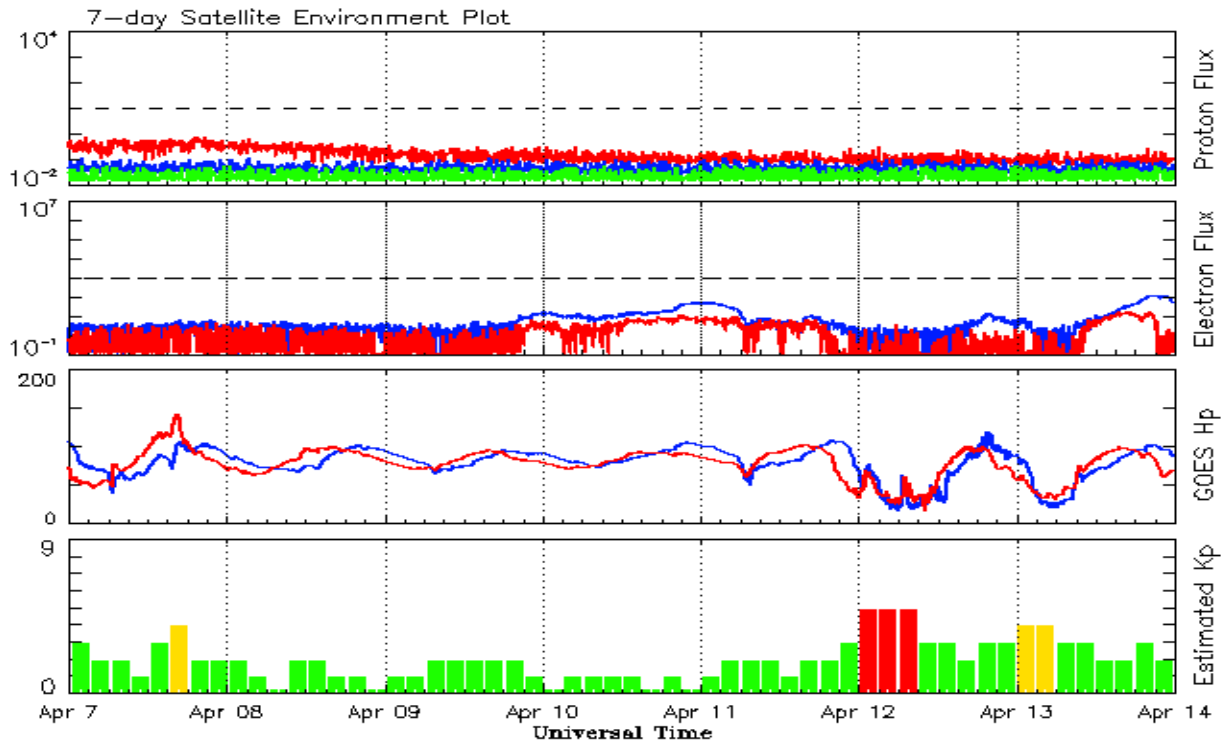


Recent Solar Indices (preliminary)
Observed monthly mean values

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									
April	84.4	55.2	0.65	91.3	64.6	113.1	125.8	9	8.0
May	99.5	69.0	0.69	87.7	61.7	121.5	123.8	8	8.2
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			132.3		7	
November	125.7	77.6	0.62			148.4		5	
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	

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 07 April 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.

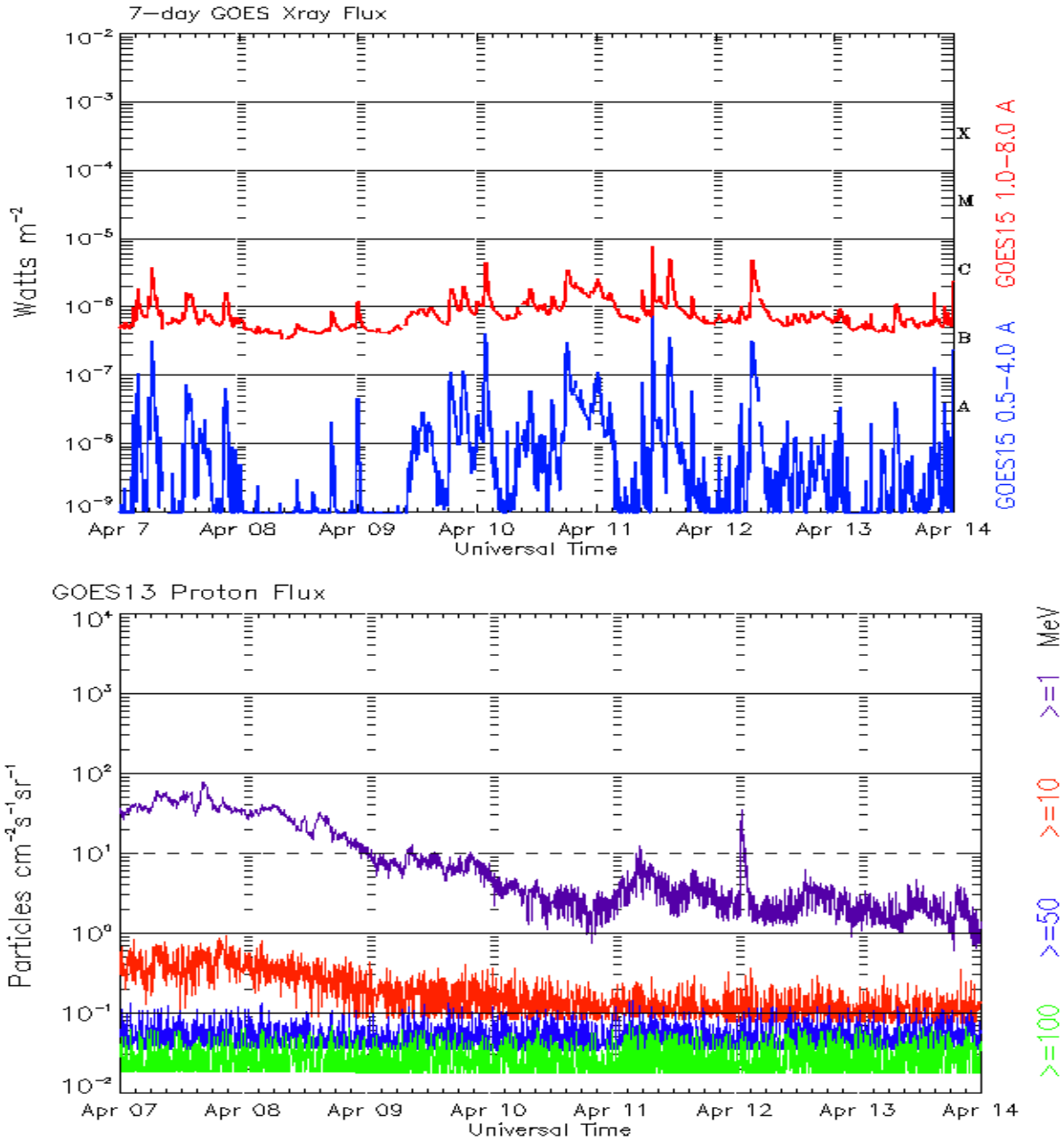
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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.

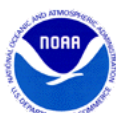




*Weekly GOES Satellite X-ray and Proton Plots
Week Beginning 07 April 2014*

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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