

Solar activity reached high levels during the period. The week began at low levels, the largest flare was a C8 at 05/1828 from Region 2056 (N04, L=258 class/area Eki/430 on 09 May) as it rotated onto the east limb. Activity increased to moderate levels on 06 - 07 May. Region 2051 (S09, L=058 class/area Dkc/310 on 03 May) produced three M1 flares at 06/0903 UTC, 06/2209 UTC and 07/1549 UTC. Activity increased further to reach high levels on 08 May due to an M5/2b flare at 08/1007 UTC from Region 2056. The event was accompanied by moderate radio emissions in the 1415 MHz to 15.4 GHz range including a 390 sfu Tenflare. Low levels were observed for the remainder of the period, however, Region 2058 (S15, L=231 class/area Fao/140 on 10 May) produced a C7/1f flare at 09/1501 UTC and Region 2056 produced a C8/1n at 10/0658 UTC. At around 09/0221 UTC a filament eruption was observed in SDO/AIA imagery from behind the west limb and appeared to be associated with Region 2051 as seen in STEREO-A imagery. Type-II (estimated 960 km/s) and Type-IV radio emissions were observed in conjunction with this event. No Earth-directed CMEs were observed during the period.

The greater than 10 MeV proton flux showed a slight enhancement from 07 - 10 May as a result of the M1/Sf Flare at 07/1629 UTC from Region 2051, but remained well below alert threshold.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal levels throughout the period.

Geomagnetic field activity was at quiet to unsettled levels on 05 May due to waning CME effects. Mostly quiet conditions were observed on 06 - 07 May. Unsettled to active conditions were observed on 08 May, likely due to a small transient feature and prolonged periods of southward IMF Bz with a maximum deviation of -11 nT. Mostly quiet to unsettled conditions prevailed for the remainder of the period with an isolated active period from 11/0000 - 0300 UTC due to coronal hole high speed stream effects.

Space Weather Outlook **12 May - 07 June 2014**

Solar activity is expected to be low with a chance for M-class activity due to potential flare activity from Regions 2055 (N12, L=271 class/area Ehi/530 on 09 May) and 2056 followed by the return of old Region 2051 (S09, L=059) on 19 May.

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 period.

Geomagnetic field activity is expected to be quiet to unsettled on 12 May due to residual coronal hole high speed stream (CH HSS) effects. Mostly quiet conditions are expected on 13 May. Quiet to unsettled conditions with isolated active periods are expected on 14 - 15 May due to a



recurrent CH HSS. Mostly quiet conditions are expected to prevail throughout the remainder of the period with the exception of 21 - 22 May and 04 - 07 June when recurrent negative polarity coronal hole high speed streams are anticipated to become geoeffective.



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
05 May	139	131	890	B8.1	5	0	0	3	0	0	0	0
06 May	139	137	1130	B7.3	4	2	0	3	1	0	0	0
07 May	146	105	1010	B8.3	3	1	0	3	0	0	0	0
08 May	148	124	1180	B7.8	2	1	0	1	0	1	0	0
09 May	152	123	1320	B6.6	8	0	0	12	1	0	0	0
10 May	152	125	1080	B7.2	6	0	0	18	1	0	0	0
11 May	164	161	1050	B8.1	8	0	0	11	0	1	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
	05 May	4.7e+04	1.0e+04	2.4e+03		5.8e+04
06 May	7.0e+04	1.0e+04	2.5e+03		3.3e+05	
07 May	6.9e+04	1.3e+04	2.5e+03		4.5e+05	
08 May	5.4e+05	2.5e+04	2.5e+03		7.5e+04	
09 May	3.4e+05	2.0e+04	2.9e+03		1.0e+05	
10 May	3.7e+05	1.6e+04	2.7e+03		3.8e+05	
11 May	1.7e+05	1.1e+04	2.5e+03		9.7e+05	

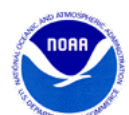
Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	05 May	11	1-3-3-3-3-2-2-2	10	1-3-3-3-2-3-2-1	10
06 May	4	1-1-1-1-2-1-1-1	1	1-1-1-0-0-0-0-0	3	1-1-1-1-1-0-0-0
07 May	5	0-0-0-2-3-1-2-2	3	0-0-0-0-3-1-0-1	4	0-1-1-1-2-1-1-2
08 May	13	2-3-3-3-2-3-3-3	41	3-4-5-7-3-5-2-4	20	2-4-3-4-3-4-3-4
09 May	8	3-2-3-1-2-1-2-1	9	4-2-4-2-0-0-0-1	8	3-2-3-2-1-1-1-1
10 May	10	2-3-2-2-3-1-2-3	8	2-3-3-2-0-1-2-2	9	2-3-2-1-1-1-3-3
11 May	10	3-3-1-2-3-2-2-2	18	4-4-3-5-2-2-1-2	12	4-3-2-3-2-2-2-3

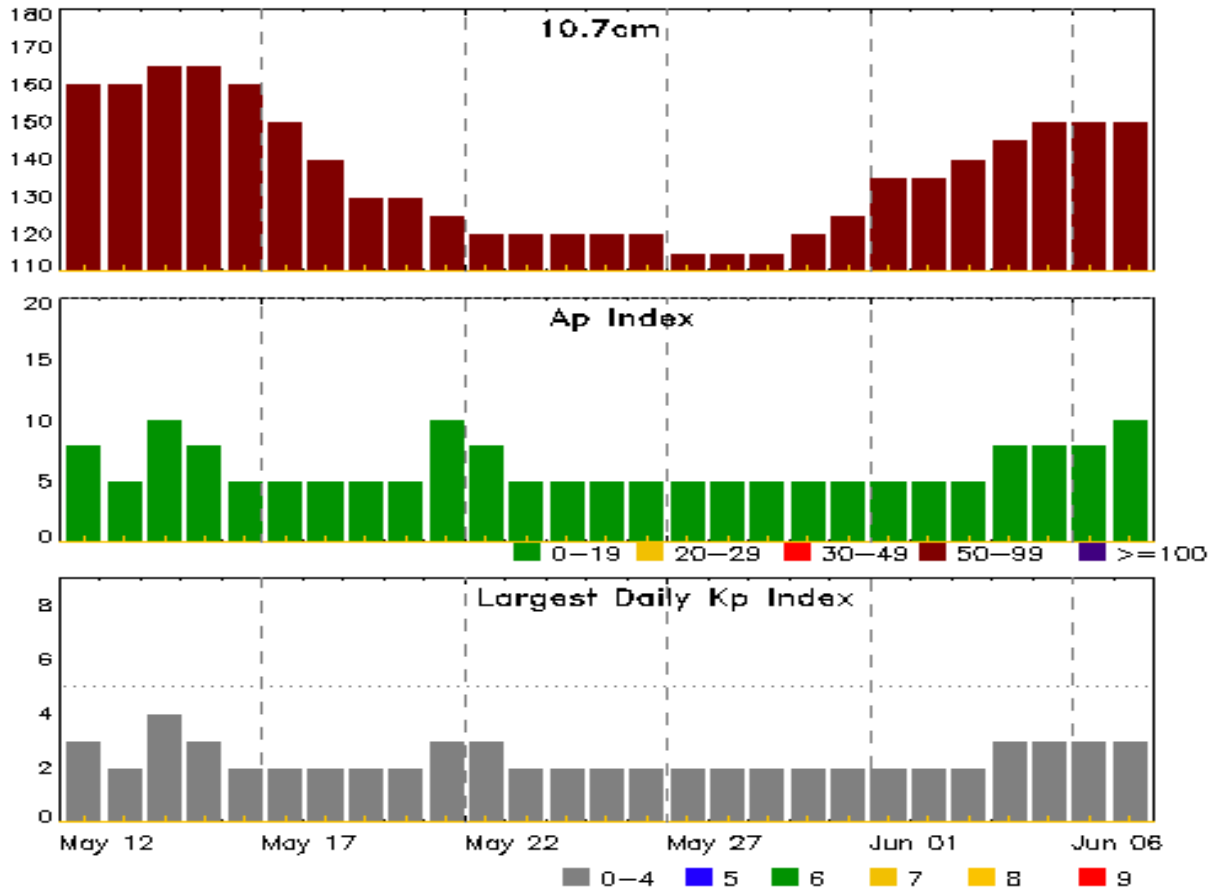


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
08 May 0403	WARNING: Geomagnetic K = 4	08/0415 - 1300
08 May 0500	ALERT: Geomagnetic K = 4	08/0456
08 May 1007	ALERT: X-ray Flux exceeded M5	08/1006
08 May 1029	SUMMARY: 10cm Radio Burst	08/1000 - 1008
08 May 1029	SUMMARY: X-ray Event exceeded M5	08/0920 - 1018
08 May 1736	WARNING: Geomagnetic K = 4	08/1735 - 09/1300
08 May 1750	ALERT: Geomagnetic K = 4	08/1750
09 May 0420	ALERT: Type II Radio Emission	09/0221
09 May 0421	ALERT: Type IV Radio Emission	09/0236
10 May 0446	WARNING: Geomagnetic K = 4	10/0445 - 1300
10 May 1050	ALERT: Type II Radio Emission	10/0950
11 May 0123	WARNING: Geomagnetic K = 4	11/0122 - 1300
11 May 0129	ALERT: Geomagnetic K = 4	11/0128



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
12 May	160	8	3	26 May	120	5	2
13	160	5	2	27	115	5	2
14	165	10	4	28	115	5	2
15	165	8	3	29	115	5	2
16	160	5	2	30	120	5	2
17	150	5	2	31	125	5	2
18	140	5	2	01 Jun	135	5	2
19	130	5	2	02	135	5	2
20	130	5	2	03	140	5	2
21	125	10	3	04	145	8	3
22	120	8	3	05	150	8	3
23	120	5	2	06	150	8	3
24	120	5	2	07	150	10	3
25	120	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 #	245	2695	II	IV
06 May	0841	0903	0921	M1.8	0.033	SF	S15W84	2051				
06 May	2201	2209	2220	M1.0	0.008	SF	S10W87	2051				
07 May	1607	1629	1703	M1.2	0.029			2051				
08 May	0959	1007	1018	M5.2	0.047	2B	N08E54	2056		390		

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
	Begin	Max	End				
05 May	0626	0627	0632		SF	S09W22	2049
05 May	1157	1223	1239	C1.9			2051
05 May	1236	1241	1241		SF	N11E33	2053
05 May	1525	1529	1532	C1.8			
05 May	1539	1541	1544		SF	S12W75	2051
05 May	1810	1828	1835	C8.0			2056
05 May	2110	2117	2126	C2.7			2051
05 May	2305	2310	2317	C1.5			2056
06 May	0419	0432	0450	C7.1	1F	S13W86	2051
06 May	0841	0903	0921	M1.8	SF	S15W84	2051
06 May	1041	1043	1045		SF	N14E58	2055
06 May	1257	1300	1302	C1.3			
06 May	1710	1735	1820	C4.7			2051
06 May	2201	2209	2220	M1.0	SF	S10W87	2051
06 May	2245	2253	2300	C6.2			2051
07 May	0439	0445	0450	C1.5			2051
07 May	0621	0630	0638	C3.6			2051
07 May	0929	0930	0935		SF	N10E08	2053
07 May	1246	1248	1257		SF	N10E06	2053
07 May	1546	U1549	A1617		SF	N15E50	2055
07 May	1607	1629	1703	M1.2			2051
07 May	1912	1922	1939	C3.9			2051
08 May	0121	0140	0206	C3.0			2056
08 May	B0735	U0735	0743		SF	N13E40	2055
08 May	0959	1007	1018	M5.2	2B	N08E54	2056
08 May	1434	1458	1518	C1.3			2058
09 May	0048	0055	0103	C1.4	SF	N04E42	2056



Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical	
	Begin	Max	End			Location Lat CMD	Rgn #
09 May	0514	0521	0527	C2.4	SF	S16E74	2058
09 May	0632	U0633	0742		SF	N07E42	2056
09 May	0814	0819	0828	C3.3	SF	S11E75	2058
09 May	0906	0906	0914		SF	N07E40	2056
09 May	1114	1119	1128	C1.6	SF	S12E72	2058
09 May	1145	1148	1151	C1.2	SF	N14E25	2055
09 May	1248	1258	1309	C1.9	SF	S12E74	2058
09 May	1325	1326	1332		SF	N07E37	2056
09 May	1413	1419	1438	C3.6	SF	S11E72	2058
09 May	1450	1501	1522	C7.8	1F	S15E66	2058
09 May	1651	1653	1656		SF	S11E69	2058
09 May	2331	2339	2344		SF	N12E18	2055
10 May	0028	0029	0039		SF	N12E18	2055
10 May	0248	0248	0251		SF	N13E15	2055
10 May	0305	0310	0313		SF	N14E37	2057
10 May	0333	0335	0343		SF	N13E15	2055
10 May	0536	0555	0625		SF	N13E15	2055
10 May	0650	0658	0809	C8.7	1N	N03E31	2056
10 May	0734	0734	0743		SF	N11E15	2055
10 May	0831	0840	0848	C2.1	SF	N14E13	2055
10 May	0922	0939	0947	C2.4			2052
10 May	0927	0930	0943		SF	N11E32	2057
10 May	0932	0937	1003		SF	S16W48	2052
10 May	1306	1309	1328		SF	N14E10	2055
10 May	1415	1415	1424		SF	N14E09	2055
10 May	1453	1454	1513		SF	N14E09	2055
10 May	1459	1500	1516		SF	N05E21	2056
10 May	1500	1503	1504		SF	N04E42	2056
10 May	1611	1611	1638		SF	N12E09	2055
10 May	1615	1616	1619		SF	S07E49	2058
10 May	1817	1822	1828	B9.7	SF	N05E23	2056
10 May	1831	1846	1853	C1.8	SF	N05E23	2056
10 May	2152	2155	2159	C1.1			
10 May	2347	2354	0001	C4.2			2055
11 May	0433	0443	0449	C6.4	2N	S11E44	2058
11 May	0521	0525	0528	C2.3	SF	N03E31	2056
11 May	0631	0637	0650		SF	N13E14	2055
11 May	0807	0808	0825	C1.6	SF	N11W01	2055



Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical	
	Begin	Max	End			Location Lat CMD	Rgn #
11 May	0916	0920	0922	C1.3	SF	N10W00	2055
11 May	0947	0949	0950		SF	N05E13	2056
11 May	1039	1041	1048		SF	N06E12	2056
11 May	1108	1109	1113		SF	S13E45	2060
11 May	1301	1311	1318	C1.2	SF	N04E11	2056
11 May	1707	1714	1719	C3.1	SF	N03E07	2056
11 May	1740	1744	1749	C1.3			2060
11 May	1840	1916	1949	C3.4	SF	N05E10	2056
11 May	2152	2154	2155		SF	S15E38	2060



Region Summary

Date	Location		Sunspot Characteristics					Flares								
	Lat	CMD	Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
			Lon	10 ⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
Region 2047																
27 Apr	S18E42		45	10	5	Cro	2	B								
28 Apr	S18E28		46	60	6	Dso	9	B								
29 Apr	S18E14		47	80	8	Dai	11	B					1			
30 Apr	S18E01		47	90	8	Dai	14	B					1			
01 May	S18W13		48	150	8	Dsc	19	BG					1			
02 May	S18W28		48	360	10	Dkc	25	BG	3				3			
03 May	S17W41		49	260	11	Eko	20	BG	2				1			
04 May	S17W54		49	170	10	Dao	16	B								
05 May	S17W68		50	150	9	Cao	11	B								
06 May	S17W82		50	150	9	Cao	2	B								
									5	0	0	7	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 47

Region 2049																
27 Apr	S07E71		16	180	7	Dao	3	B								
28 Apr	S07E57		17	350	10	Dho	6	B					3			
29 Apr	S07E43		18	340	10	Dki	14	BG								
30 Apr	S07E29		19	300	10	Dki	11	BG	1				8			
01 May	S07E15		20	430	11	Ekc	18	BG								
02 May	S07W00		21	400	11	Ekc	18	BG	1							
03 May	S07W07		15	360	9	Dkc	17	B	1				1			
04 May	S07W20		15	270	9	Dkc	18	BG	1				1			
05 May	S07W34		16	210	9	Dac	12	BG					1			
06 May	S07W48		16	180	9	Cao	9	B								
07 May	S07W62		17	170	2	Hsx	1	A								
08 May	S08W76		18	200	6	Cso	6	B								
09 May	S07W89		18	90	5	Dso	2	B								
									4	0	0	14	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 21



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 2050																							
27 Apr	N12E73		14	40	2	Hsx	1	A															
28 Apr	N12E59		15	50	2	Hsx	1	A															
29 Apr	N12E45		16	30	2	Hsx	1	A															
30 Apr	N12E31		17	30	2	Hsx	1	A	1														
01 May	N12E17		18	30	2	Hax	1	A															
02 May	N12E05		16	40	1	Hax	1	A															
03 May	N12W05		13	20	2	Hax	2	A															
04 May	N12W19		14	20	1	Hsx	1	A															
05 May	N12W33		15	20	1	Hsx	1	A															
06 May	N12W47		15	10	1	Hrx	1	A															
07 May	N12W61		16	10	1	Axx	1	A															
08 May	N12W74		16	0	1	Axx	1	A															
09 May	N12W88		17	plage																			
									1	0	0	0	0	0	0	0	0	0	0	0	0	0	

Crossed West Limb.

Absolute heliographic longitude: 16

Region 2051

01 May	S09W22		56	10	3	Bxo	4	B														
02 May	S10W37		57	180	4	Dac	16	BGD					1									
03 May	S09W50		58	310	5	Dkc	11	BGD	6				1									
04 May	S09W64		59	180	6	Dac	10	BGD	4				2									
05 May	S09W78		60	170	6	Dac	10	BGD	2				1									
06 May	S09W92		60	170	6	Dac	10	BGD	3	2			2	1								
									15	2	0	7	1	0	0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 56



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 2052																							
02 May	S11E49	331	30		2	Cro	4	B	3				1										
03 May	S11E35	333	100		5	Dso	9	B					1										
04 May	S12E22	333	80		5	Dao	8	B															
05 May	S12E08	334	50		5	Dao	6	B															
06 May	S12W06	334	30		3	Cro	5	B															
07 May	S12W20	335	10		1	Hrx	2	A															
08 May	S12W32	334	10		4	Bxo	2	B															
09 May	S12W46	335	10		4	Bxo	2	B															
10 May	S12W60	336	10		4	Bxo	3	B	1				1										
11 May	S12W74	336	10		4	Bxo	3	B															
									4	0	0	3	0	0	0	0	0						

Still on Disk.

Absolute heliographic longitude: 334

Region 2053

03 May	N10E50	318	10		3	Bxo	2	B													
04 May	N10E40	315	20		3	Bxo	4	B	3				4								
05 May	N10E26	316	50		5	Dao	7	B					1								
06 May	N10E12	316	60		5	Dao	8	B													
07 May	N10W02	317	30		5	Cro	5	B					2								
08 May	N10W16	318	30		5	Cao	3	B													
09 May	N10W29	318	30		4	Cao	4	B													
10 May	N10W43	319	10		3	Cro	3	B													
11 May	N09W57	319	10		1	Axx	1	A													
									3	0	0	7	0	0	0	0	0				

Still on Disk.

Absolute heliographic longitude: 317



Region Summary - continued

Date	Location		Sunspot Characteristics				Flares									
	Lat CMD	Lon	Helio 10 ⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical					
								C	M	X	S	1	2	3	4	
Region 2054																
04 May	S12E65	290	40	2	Hsx	1	A									
05 May	S12E51	291	40	2	Hsx	1	A									
06 May	S12E37	291	30	2	Hax	1	A									
07 May	S12E23	292	20	2	Hrx	1	A									
08 May	S12E11	291	20	2	Hrx	1	A									
09 May	S12W03	292	10	1	Hrx	1	A									
10 May	S12W16	292	10	3	Bxo	3	B									
11 May	S09W31	293	plage													
								0	0	0	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 292

Region 2055																
05 May	N10E67	273	200	6	Dao	3	B									
06 May	N10E53	275	230	6	Dso	7	B						1			
07 May	N11E39	276	380	10	Dko	5	B						1			
08 May	N12E32	269	450	10	Dho	4	B						1			
09 May	N12E18	271	530	11	Ehi	12	BG	1					2			
10 May	N12E04	272	440	11	Eho	11	BG	2					10			
11 May	N12W09	271	380	11	Eko	7	B	2					3			
								5	0	0	18	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 272

Region 2056																
05 May	N05E84	259	plage										2			
06 May	N05E70	258	270	10	Dko	4	B									
07 May	N04E56	259	310	10	Dko	9	BG									
08 May	N04E44	258	350	11	Eki	15	BGD	1	1					1		
09 May	N04E31	258	430	11	Eki	17	BG	1					4			
10 May	N05E16	260	350	11	Ehi	14	BG	2					4	1		
11 May	N05E03	259	310	11	Eki	14	BG	4					6			
								10	1	0	14	1	1	0	0	

Still on Disk.

Absolute heliographic longitude: 259



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 2057

07 May	N15E65	250	80	1	Hsx	1	A										
08 May	N15E53	249	70	2	Hsx	1	A										
09 May	N15E38	251	120	2	Hsx	1	A										
10 May	N15E26	250	110	2	Hsx	1	A					2					
11 May	N15E12	250	110	2	Hsx	1	A										

0 0 0 2 0 0 0 0

Still on Disk.

Absolute heliographic longitude: 250

Region 2058

08 May	S12E69	233	50	2	Hax	1	A	1									
09 May	S14E57	232	100	12	Eao	4	B	6		6	1						
10 May	S15E45	231	140	17	Fao	9	BG			1							
11 May	S11E30	232	50	9	Cao	8	B	1				1					

8 0 0 7 1 1 0 0

Still on Disk.

Absolute heliographic longitude: 232

Region 2059

10 May	S00E23	253	10	1	Hrx	1	A										
11 May	S00E08	254	10	1	Hsx	1	A										

0 0 0 0 0 0 0 0

Still on Disk.

Absolute heliographic longitude: 254

Region 2060

11 May	S16E37	225	100	7	Dai	16	BG	1			2						
								1	0	0	2	0	0	0	0		

1 0 0 2 0 0 0 0

Still on Disk.

Absolute heliographic longitude: 225

Region 2061

11 May	S24E67	195	40	2	Cao	3	B										
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0 0 0 0 0 0 0 0

Still on Disk.

Absolute heliographic longitude: 195



Region Summary - continued

Location		Sunspot Characteristics					Flares								
Date	Lat CMD	Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
		Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
Region 2062															
11 May	S07W30	292	30	4	Dao	7	B	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 292

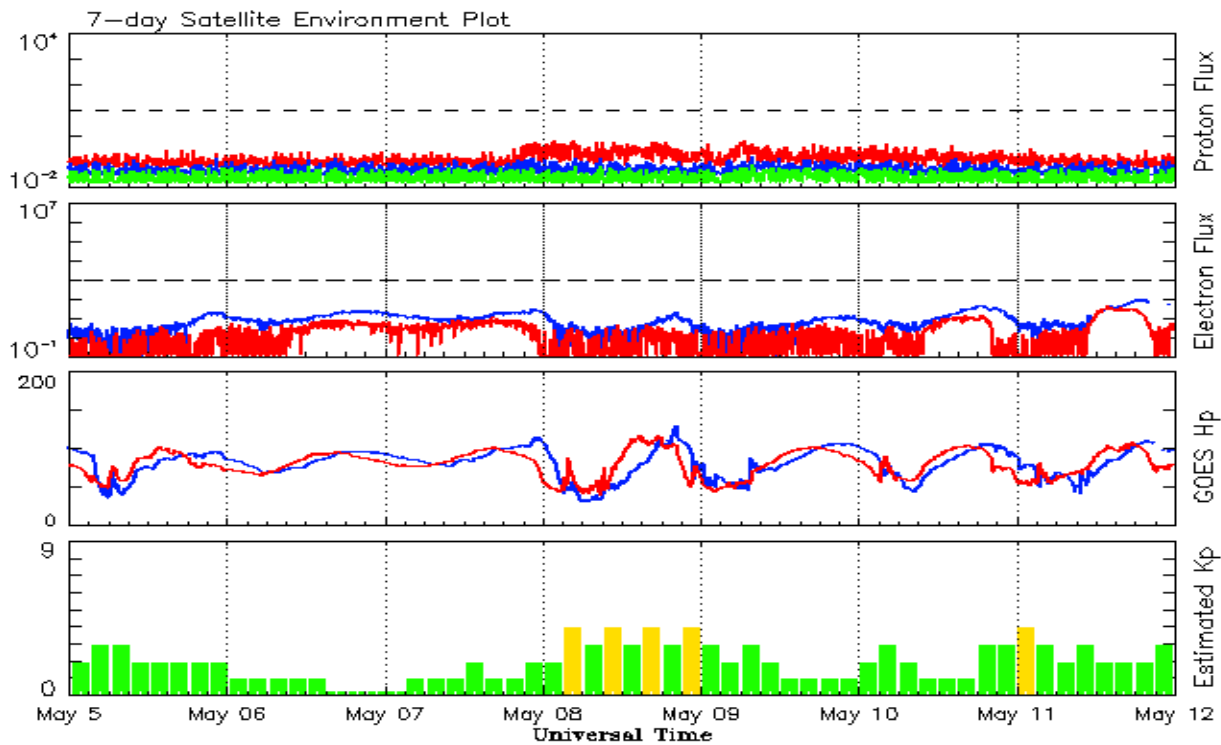


Recent Solar Indices (preliminary)
Observed monthly mean values

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									
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	114.3	75.0	132.3	134.7	7	7.8
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	
April	130.5	84.7	0.65			144.3		9	

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 05 May 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.

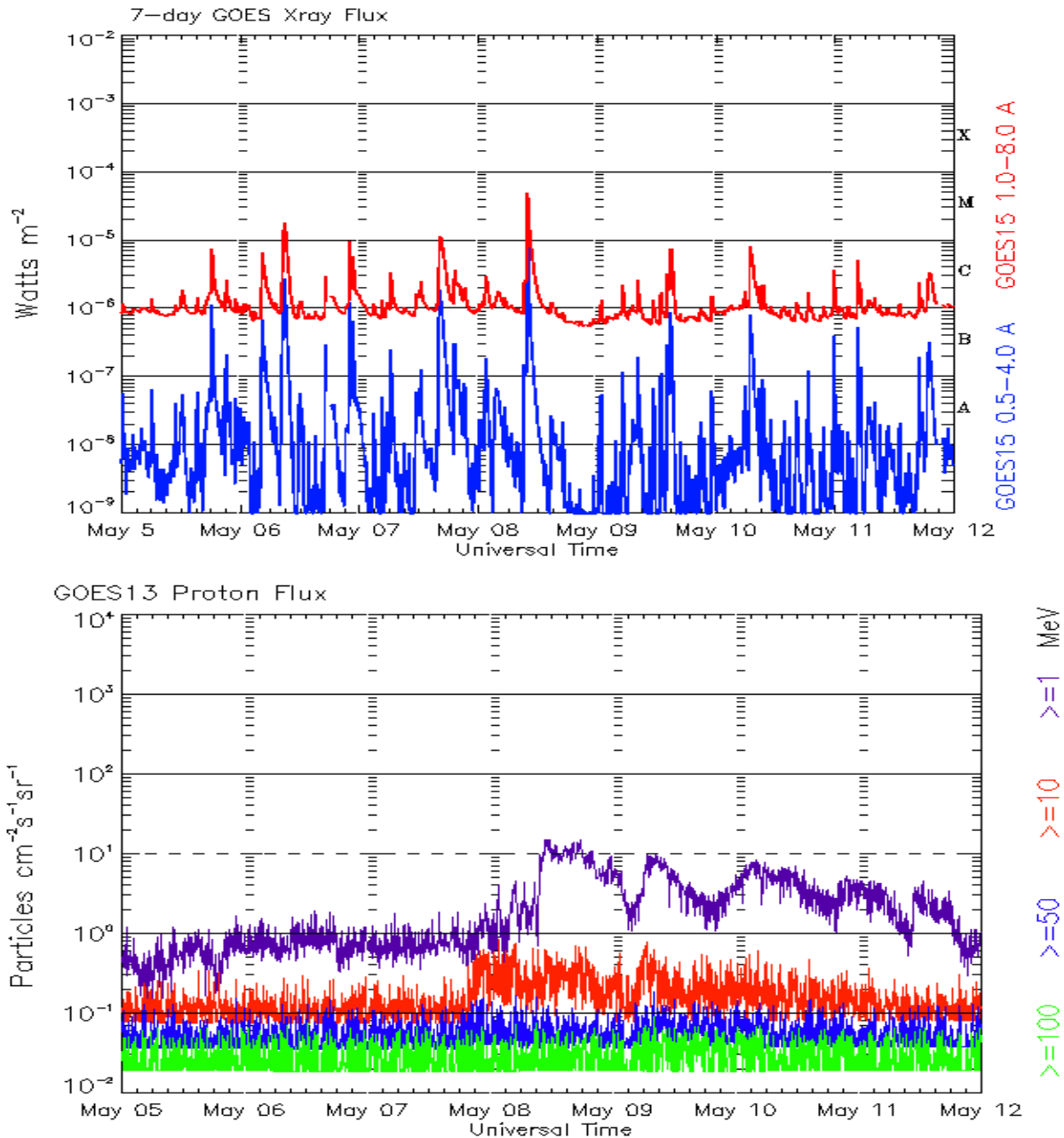
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 05 May 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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