

Solar activity was at low levels from 18-23 May with very low levels observed on 24 May. Only low level isolated C-class flaring was observed during the period originating from Regions 2349 (S21, L=002, class/area Dao/060 on 24 May), 2351 (N22, L=330, class/area Cso/020 on 20 May), and 2353 (N07, L=344, class/area Dao/060 on 24 May). Region 2339 (N13, L=129, class/area Fkc/900 on 08 May), which was very productive last period, decayed as it quietly rotated around the NW limb on 18 May. Region 2349 emerged on the visible disk on 18 May, but did not show any significant growth until 23 May. Region 2353 emerged on 21 May and exhibited growth through the end of the period. However, both regions only managed 60 millionths of coverage by the end of the period. No Earth directed coronal mass ejections were observed.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal levels on 19 and 24 May, moderate levels from 20-23 May, and at high levels on 18 May.

Geomagnetic field activity ranged from quiet to major storm conditions. The period began under the influence of a co-rotating interaction region followed by a positive polarity equatorial coronal hole high speed stream (CH HSS). Total field increased to a maximum of 18 nT at 19/0052 UTC while the Bz component fluctuated between +13 nT and -15 nT late on 18 May through early on 19 May. Solar wind increased to near 575 km/s by midday on 19 May before slowly returning to nominal conditions by late on 20 May. The geomagnetic field responded with minor to major storm conditions late on 18 May through early on 19 May. Quiet to unsettled levels were observed on 20 May. A return to quiet conditions occurred on 21 May and persisted through the end of the period.

Space Weather Outlook **25 May - 20 June 2015**

Solar activity is expected to be at very low to low levels. A chance for moderate levels exists from 30 May through 11 Jun with the return of Region 2339.

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 with high levels possible from 31 May-01 Jun, 04-06 Jun, 10-12 Jun, and 16-20 Jun due to recurrent CH HSS effects.

Geomagnetic field activity is expected to be at unsettled to active levels from 28-30 May, 02-03 Jun, 07-11 Jun, and 13-15 Jun with possible minor storm levels on 08-09 Jun due to recurrent 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
18 May	115	83	340	B4.4	2	0	0	2	0	0	0	0
19 May	110	84	220	B3.4	1	0	0	4	0	0	0	0
20 May	106	61	130	B2.7	2	0	0	3	0	0	0	0
21 May	102	36	70	B2.0	1	0	0	8	0	0	0	0
22 May	99	81	160	B2.0	1	0	0	3	0	0	0	0
23 May	98	69	150	B1.9	3	0	0	5	0	0	0	0
24 May	99	74	180	B1.8	0	0	0	0	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
	18 May	3.6e+05	1.0e+04	2.5e+03		1.4e+08
19 May	1.5e+05	1.0e+04	2.6e+03		2.0e+06	
20 May	2.4e+05	1.0e+04	2.4e+03		5.4e+06	
21 May	1.4e+05	1.0e+04	2.4e+03		7.8e+06	
22 May	1.4e+05	1.0e+04	2.6e+03		9.2e+06	
23 May	3.7e+05	1.0e+04	2.6e+03		1.3e+07	
24 May	1.0e+05	1.1e+04	2.6e+03		1.4e+06	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	18 May	15	2-2-2-3-3-1-3-5	15	2-1-2-4-4-2-3-4	16
19 May	14	4-4-2-3-2-2-3-2	16	5-3-3-3-2-2-3-1	17	6-4-2-3-2-2-2-1
20 May	10	2-3-2-3-2-2-2-3	11	3-3-2-3-4-2-1-0	7	3-3-2-2-2-1-1-0
21 May	5	1-0-1-2-2-2-2-1	2	0-0-1-1-1-0-1-1	3	0-1-1-1-1-1-1-1
22 May	4	1-1-0-2-2-1-2-1	2	2-1-0-0-1-0-0-0	3	2-1-0-1-1-0-1-0
23 May	5	0-1-1-2-2-2-2-1	2	0-1-1-2-0-1-1-0	4	0-1-1-2-1-1-1-1
24 May	6	1-1-1-1-3-1-2-2	2	1-2-1-0-0-0-1-1	5	1-2-1-1-1-1-1-2

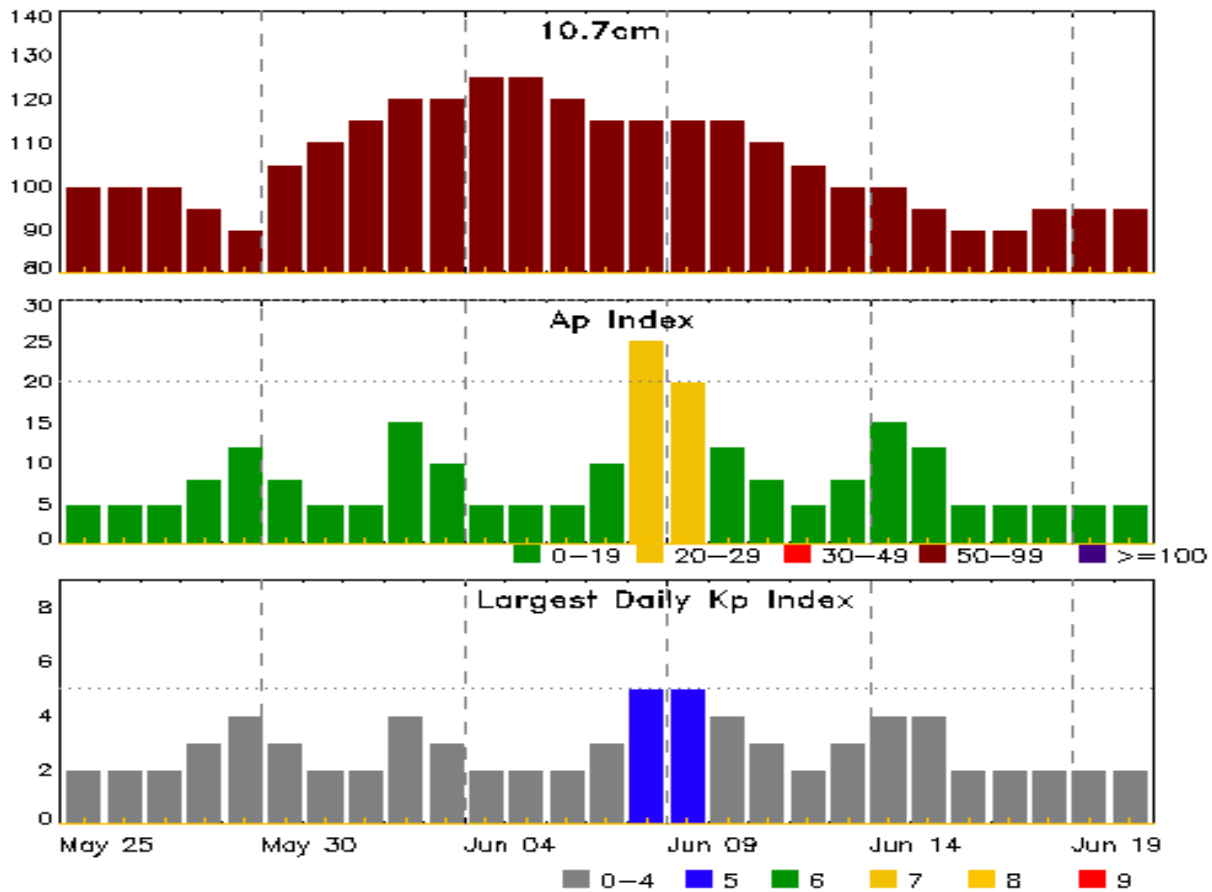


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
18 May 0502	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	14/0920
18 May 1505	ALERT: Type II Radio Emission	18/1427
18 May 1848	WARNING: Geomagnetic K = 4	18/1848 - 2300
18 May 2234	EXTENDED WARNING: Geomagnetic K = 4	18/1848 - 19/0700
18 May 2234	ALERT: Geomagnetic K = 4	18/2233
18 May 2312	WARNING: Geomagnetic K = 5	18/2312 - 19/0600
18 May 2315	ALERT: Geomagnetic K = 5	18/2315
19 May 0052	EXTENDED WARNING: Geomagnetic K = 5	18/2312 - 19/1000
19 May 0052	EXTENDED WARNING: Geomagnetic K = 4	18/1848 - 19/1300
19 May 0052	WARNING: Geomagnetic K = 6	19/0050 - 0600
19 May 0301	ALERT: Geomagnetic K = 6	19/0259



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
25 May	100	5	2	08 Jun	115	25	5
26	100	5	2	09	115	20	5
27	100	5	2	10	115	12	4
28	95	8	3	11	110	8	3
29	90	12	4	12	105	5	2
30	105	8	3	13	100	8	3
31	110	5	2	14	100	15	4
01 Jun	115	5	2	15	95	12	4
02	120	15	4	16	90	5	2
03	120	10	3	17	90	5	2
04	125	5	2	18	95	5	2
05	125	5	2	19	95	5	2
06	120	5	2	20	95	5	2
07	115	10	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		Intensity	
									245	2695	II	IV

No Events Observed

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
	Begin	Max	End				
18 May	0727	0753	0808	C1.0	SF	S22E45	2349
18 May	0816	0821	0823	C1.1			2349
18 May	1311	1315	1318	B6.7	SF	N19W50	2342
18 May	1815	1818	1820	B9.1			2345
19 May	1059	1102	1106	B7.3			
19 May	1154	1159	1202	C2.3	SF	N25E55	2351
19 May	1240	1245	1249	B7.6	SF	S19E29	2349
19 May	1319	1324	1346		SF	S19E29	2349
19 May	1329	1330	1335		SF	N25E54	2349
20 May	0249	0257	0304	B7.7			2349
20 May	0348	0404	0427	C1.3			2351
20 May	0755	0809	0841	C1.6	SF	S22E18	2349
20 May	1502	1507	1512	B5.8	SF	N23E40	2351
20 May	1650	1702	1722	B7.1			
20 May	1831	1836	1841	B6.2	SF	S06W52	2346
21 May	0333	0343	0352	B6.1			
21 May	0522	0537	0553	B6.3	SF	S05W55	2346
21 May	0556	0557	0559		SF	N23E29	2351
21 May	0601	0611	0617	B9.8	SF	S05W56	2346
21 May	0657	0706	0717	C1.1	SF	S21E05	2349
21 May	0734	0740	0748		SF	S09W55	2346
21 May	0839	0839	0843		SF	S21E03	2349
21 May	1028	1029	1031		SF	S09W61	2344
21 May	B1046	U1046	1052		SF	S08W61	2344
21 May	2039	2047	2056	B4.2			
22 May	1407	U1411	1428		SF	S23W13	2349
22 May	1640	1645	1652	B5.4	SF	N06E16	2352
22 May	2341	2351	2357	C2.0	SF	S21W19	2349
23 May	0115	0122	0132	B4.0			2349
23 May	0327	0333	0336	C1.0			2353
23 May	0718	0722	0725	C1.1			2353



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
23 May	1339	1343	1348	B4.9			2349
23 May	1624	1630	1633	B3.9			2353
23 May	B1639	U1709	A1722	B6.0	SF	S21W32	2349
23 May	B1700	U1703	A1718		SF	N07W15	2353
23 May	1730	1739	1741	C2.3	SF	N08W13	2353
23 May	1745	1745	1749		SF	N08W13	2353
23 May	2351	2356	0001	B6.4	SF	S23W30	2349



Region Summary

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 2248																							
23 Dec	S20E75		82	30	4	Hsx	1	A															
24 Dec	S20E60		84	50	1	Hsx	1	A															
25 Dec	S20E47		84	70	2	Hax	2	A	2														
26 Dec	S21E35		82	60	3	Dao	5	BG	1				3										
27 Dec	S19E22		83	160	7	Dso	18	BG	1														
28 Dec	S19E07		84	120	7	Dso	9	BG	3				2										
29 Dec	S21W06		84	100	13	Cso	14	B	2				6										
30 Dec	S14W17		81	70	8	Cso	5	B															
31 Dec	S19W29		81	60	2	Hsx	2	A															
01 Jan	S19W42		81	50	2	Hax	1	A															
02 Jan	S19W55		80	50	1	Hax	1	A	1														
03 Jan	S19W68		80	30	1	Hax	1	A															
04 Jan	S19W82		81	20	1	Hax	1	A					1										
									10	0	0		12	0	0	0	0	0					

Crossed West Limb.

Absolute heliographic longitude: 84

Region 2249

25 Dec	S12W33		164	90	6	Dao	8	BG														
26 Dec	S12W47		165	140	6	Dac	8	BG	8				8									
27 Dec	S10W61		164	210	6	Dac	12	BG	1	1			3	1	1							
28 Dec	S12W74		165	200	9	Dac	13	BG					6									
29 Dec	S11W87		165	220	10	Dai	6	BG														
									9	1	0		17	1	1	0	0					

Crossed West Limb.

Absolute heliographic longitude: 164



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 2339																							
05 May	N12E70		133	250	11	Ekc	5	BG	5	2	1	3											
06 May	N12E59		131	590	17	Fkc	15	BG	6	1		10	1										
07 May	N13E47		131	730	17	Fkc	20	BG	8			15	1										
08 May	N13E35		129	900	21	Fkc	32	BG	8			6	1										
09 May	N12E24		127	840	20	Fkc	40	BG	4			10											
10 May	N13E08		130	820	22	Fkc	35	BG	6			10											
11 May	N13W05		129	760	19	Fkc	60	BG	2			7											
12 May	N14W19		130	670	18	Fkc	51	BG	4			9	1										
13 May	N13W34		131	310	19	Fkc	37	BG	4			9	1										
14 May	N11W45		129	400	19	Fac	21	B	4			3	1										
15 May	N12W59		131	310	19	Fkc	26	BG	5			10											
16 May	N11W72		131	300	18	Fkc	20	BG				2											
17 May	N12W80		125	240	9	Dso	5	B				1											
18 May	N11W96		127	70	10	Hsx	1	A															
									56	3	1	95	6	0	0	0	0						

Crossed West Limb.
Absolute heliographic longitude: 129

Region 2340																							
07 May	S06E65		113	30	1	Hrx	1	A															
08 May	S07E52		112	50	3	Cao	4	B															
09 May	S09E38		113	40	3	Cao	5	B															
10 May	S08E26		112	20	3	Cao	3	B															
11 May	S08E12		113	20	3	Hrx	5	A															
12 May	S07W00		111	10	1	Axx	1	A															
13 May	S08W13		110	0	2	Axx	2	A															
14 May	S08W27		112	plage																			
15 May	S08W41		113	plage																			
16 May	S08W54		113	plage																			
17 May	S08W68		113	plage																			
18 May	S08W82		114	plage																			
									0	0	0	0	0	0	0	0	0						

Crossed West Limb.
Absolute heliographic longitude: 111



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 2341																							
07 May	S19E73	105	60	1	Hsx	1	A																
08 May	S20E60	104	90	2	Hsx	1	A																
09 May	S20E47	104	70	2	Hsx	1	A																
10 May	S19E33	105	80	2	Hsx	1	A																
11 May	S19E20	104	100	2	Hsx	1	A																
12 May	S19E07	103	70	2	Hsx	1	A																
13 May	S19W05	102	80	2	Hsx	1	A						1										
14 May	S20W18	102	80	2	Hsx	1	A																
15 May	S20W31	103	70	2	Hsx	1	A																
16 May	S20W45	104	60	2	Hsx	2	A																
17 May	S19W58	103	60	2	Hsx	2	A																
18 May	S19W71	103	70	5	Hsx	2	A																
19 May	S20W83	101	10	1	Axx	1	A																
								0	0	0	1	0	0	0	0	0							

Crossed West Limb.
 Absolute heliographic longitude: 102

Region 2342																							
09 May	N18E63	88	30	4	Cro	4	B																
10 May	N18E48	90	30	4	Cro	4	B																
11 May	N18E35	88	50	7	Dai	5	BG						1										
12 May	N18E22	88	30	7	Cro	5	B																
13 May	N18E08	89	60	8	Cro	9	B	2					6										
14 May	N17W06	90	60	6	Cso	6	B	3					4										
15 May	N17W22	94	70	2	Hsx	3	A	1					2										
16 May	N17W35	94	60	2	Hsx	2	A																
17 May	N17W51	96	80	2	Hsx	1	A																
18 May	N17W64	96	70	3	Hsx	3	A						1										
19 May	N16W73	93	90	7	Cao	3	B																
20 May	N18W92	96	10	10	Bxo	1	B																
								6	0	0	14	0	0	0	0	0							

Crossed West Limb.
 Absolute heliographic longitude: 90



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 2343																							
10 May	N10E39		99	20	2	Cro	2	B															
11 May	N10E25		98	20	4	Cro	6	B															
12 May	N11E12		98	10	4	Bxo	2	B															
13 May	N11W02		100	plage									1										
14 May	N09W13		97	10	2	Bxo	3	B															
15 May	N09W27		99	plage																			
16 May	N09W40		99	plage																			
17 May	N09W54		99	plage																			
18 May	N09W68		100	plage																			
19 May	N09W82		101	plage																			
														0	0	0	1	0	0	0	0	0	

Crossed West Limb.
Absolute heliographic longitude: 100

Region 2344																							
10 May	S10E71		67	30	3	Hax	1	A	1				1										
11 May	S10E58		65	60	5	Cso	2	B					1										
12 May	S10E45		65	40	7	Cso	3	B															
13 May	S10E33		64	50	7	Cso	2	B															
14 May	S10E21		64	40	8	Cso	2	B															
15 May	S09E02		70	50	2	Hax	2	A															
16 May	S09W13		72	30	2	Hax	2	A															
17 May	S09W26		71	20	1	Hax	2	A															
18 May	S09W39		71	20	1	Hrx	1	A															
19 May	S10W53		71	10	3	Cro	1	B															
20 May	S10W67		73	10	3	Cro	1	B															
21 May	S10W81		74	plage																			
														1	0	0	4	0	0	0	0	0	

Crossed West Limb.
Absolute heliographic longitude: 70



Region Summary - continued

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 2345																	
11 May	N12E02		121	10	2	Axx	3	A	1				1				
12 May	N15W06		116	10	3	Bxo	3	B				1					
13 May	N16W16		113	20	1	Axx	2	A	1					1			
14 May	N16W30		115	plage													
15 May	N11W49		117	plage													
16 May	N11W62		111	plage													
17 May	N11W76		121	plage													
18 May	N11W90		122	plage													
									2	0	0	2	1	0	0	0	0

Crossed West Limb.
 Absolute heliographic longitude: 121

Region 2346																	
11 May	S12E69		54	50	1	Hsx	1	A									
12 May	S07E55		55	50	2	Hsx	1	A									
13 May	S06E42		55	60	2	Hsx	1	A									
14 May	S08E28		56	50	7	Cso	7	B				1					
15 May	S08E15		57	30	7	Cao	7	B				1					
16 May	S08W00		59	20	7	Cro	5	B									
17 May	S07W13		58	10	4	Bxo	4	B									
18 May	S07W29		61	plage													
19 May	S07W44		63	plage													
20 May	S06W55		60	10	4	Bxo	4	B				1					
21 May	S06W69		61	20	4	Cro	2	B				3					
22 May	S05W82		60	10	3	Bxo	2	B									
									0	0	0	6	0	0	0	0	0

Crossed West Limb.
 Absolute heliographic longitude: 59



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 2347

11 May	N06E68	55	20	1	Hsx	1	A										
12 May	N05E54	56	10	1	Axx	1	A										
13 May	N05E39	59	10	1	Axx	1	A										
14 May	N05E26	58	10	1	Axx	1	A										
15 May	N05E13	59	0	1	Axx	1	A										
16 May	N04W01	59	10	1	Axx	1	A										
17 May	N04W16	61	plage														
18 May	N04W31	63	plage														
19 May	N04W46	65	plage														
20 May	N04W61	67	plage														
21 May	N04W76	69	plage														
									0	0	0	0	0	0	0	0	0

Died on Disk.

Absolute heliographic longitude: 59

Region 2348

14 May	S09E60	24	100	2	Hsx	5	A										
15 May	S10E48	24	110	3	Hsx	3	A										
16 May	S11E34	25	110	2	Hsx	1	A										
17 May	S10E21	24	100	2	Hsx	1	A										
18 May	S10E07	25	90	2	Hax	2	A										
19 May	S10W06	24	80	4	Hax	2	A										
20 May	S10W20	26	80	4	Hax	1	A										
21 May	S11W32	24	40	2	Hax	1	A										
22 May	S11W45	24	50	1	Hsx	1	A										
23 May	S12W59	25	40	2	Hsx	1	A										
24 May	S12W72	25	30	2	Hsx	1	A										
									0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 24



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 2349																							
18 May	S20E34	357	10	3	Bxo	2	B	2				1											
19 May	S21E18	360	10	7	Bxo	3	B					3											
20 May	S21E04	359	plage					1				1											
21 May	S21W10	359	10	4	Bxo	3	B	1				2											
22 May	S21W20	359	20	5	Bxo	5	B	1				2											
23 May	S21W36	2	40	6	Cao	5	B					2											
24 May	S21W49	2	60	5	Dao	8	B																
								5	0	0	11	0	0	0	0								

Still on Disk.

Absolute heliographic longitude: 359

Region 2350																							
18 May	S16E23	9	10	4	Bxo	2	B																
19 May	S15E07	11	10	1	Axx	1	A																
20 May	S15W07	13	plage																				
21 May	S15W21	14	plage																				
22 May	S15W35	14	plage																				
23 May	S15W49	15	plage																				
24 May	S15W63	16	plage																				
								0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 11

Region 2351																							
19 May	N22E49	328	10	4	Bxo	3	B	1															
20 May	N22E34	330	20	5	Cso	4	B	1				1											
21 May	N22E20	333	plage									1											
22 May	N22E05	334	10	1	Axx	1	A																
23 May	N22W09	335	plage																				
24 May	N22W23	336	plage																				
								2	0	0	2	0	0	0	0	0	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 334



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 2352

22 May	N05E10	328	30	6	Bxi	8	B											1	
23 May	N05W03	329	10	6	Bxo	4	B												
24 May	N05W18	331	plage																
									0	0	0	1	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 329

Region 2353

22 May	N07W03	341	40	6	Cro	4	BG												
23 May	N07W18	344	50	6	Dao	7	B	3				3							
24 May	N07W31	344	60	5	Dao	9	B												
								3	0	0	3	0	0	0	0	0			

Still on Disk.

Absolute heliographic longitude: 341

Region 2354

23 May	S21W15	341	10	3	Cro	2	B												
24 May	S21W30	343	0	1	Axx	1	A												
								0	0	0	0	0	0	0	0	0			

Still on Disk.

Absolute heliographic longitude: 341

Region 2355

24 May	S10E41	272	30	4	Cao	5	B												
								0	0	0	0	0	0	0	0	0			

Still on Disk.

Absolute heliographic longitude: 272

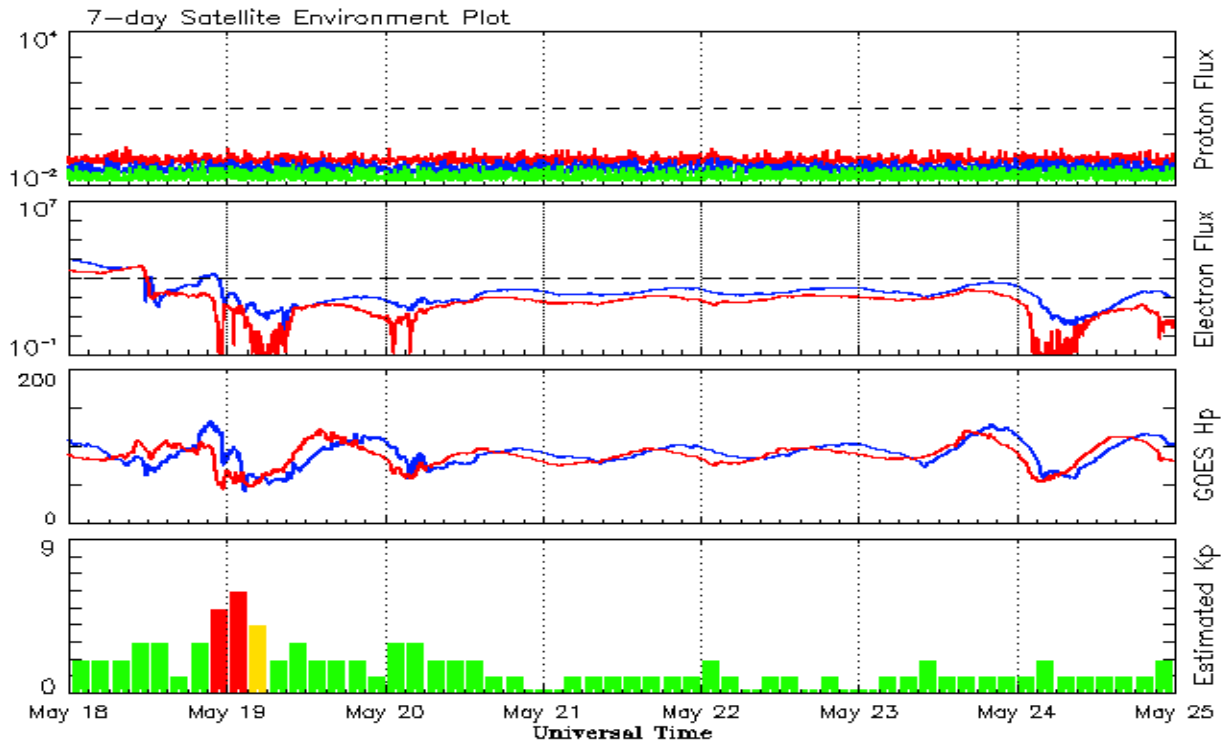


Recent Solar Indices (preliminary)
Observed monthly mean values

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
2013									
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	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			155.3		10	
December	120.0	76.7	0.65			158.7		12	
2015									
January	101.2	67.0	0.66			141.7		10	
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	

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 18 May 2015*

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.

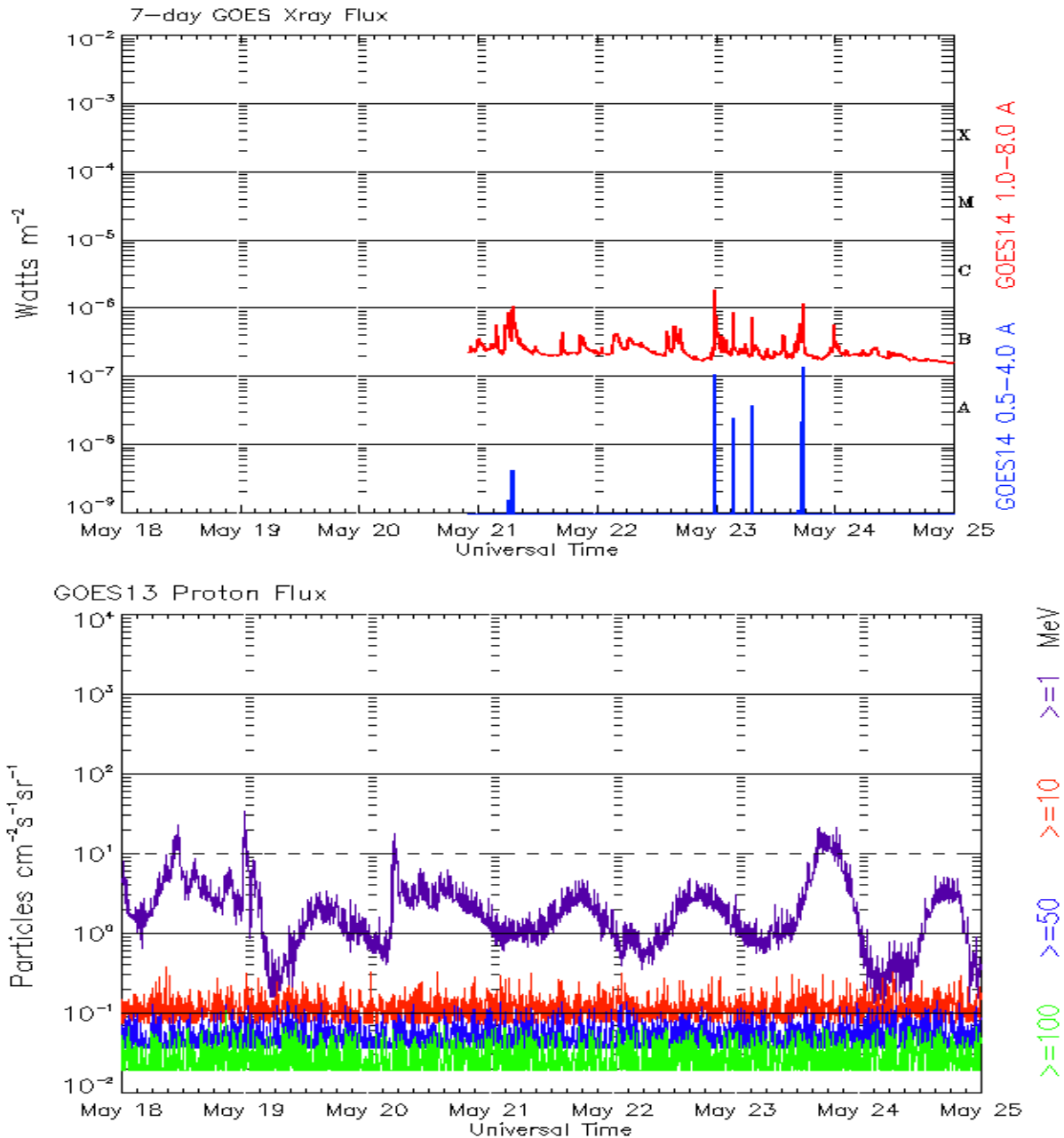
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 18 May 2015*

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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