

Solar activity began at moderate levels. Region 2381 (N14, L=074, class/area Eko/550 on 08 Jul) produced a pair of M-class flares on 06 Jul; an M1/Sn at 06/0844 UTC and an M1/2n at 06/2040 UTC. Activity was low from 07-11 Jul. Region 2381 produced the majority of the low level C-class flares from 07-09 Jul while Region 2385 (N08, L=106, class/area Dao/110 on 11 Jul) produced the C-class flares on 10-11 Jul. Solar activity decreased to very low levels on 12 Jul. Several filament eruptions were observed throughout the week but none of them were on the Sun-Earth line.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal to moderate levels for the majority of the period with the exception of 09-10 Jul when high levels were reached due to effects from a coronal hole high speed stream (CH HSS).

Geomagnetic field activity began the week at active levels due to effects from a waning CH HSS on 06 Jul. Mostly quiet conditions were observed from 07-09 Jul with the exception of isolated unsettled periods on 07 and 09 Jul. Activity increased to active to minor storm levels from 10-11 Jul due to effects from a recurrent positive polarity CH HSS. Quiet to unsettled conditions finished out the period on 12 Jul as CH HSS effects began to subside.

Space Weather Outlook
13 July - 08 August 2015

Solar activity is expected to be at very low levels with a chance for C-class flares and a slight chance for M-class flares from 13-15 Jul. Very low to low activity is expected from 16-26 Jul after Region 2381 rotates around the west limb. Activity is expected to increase to low levels with a chance for M-class flares for the remainder of the period as old Region 2378 (S15, L=084) and Region 2381 return to the visible disk.

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 on 13 Jul. Moderate to high levels are expected from 14-17 Jul following CH HSS effects. Normal to moderate levels are expected to return from 18 Jul-02 Aug. Moderate to high levels are expected again from 03-05 Aug followed by a return to normal to moderate levels from 06-08 Aug.

Geomagnetic field activity is expected to be at quiet to unsettled levels on 13-14 Jul due to residual CH HSS effects. Mostly quiet conditions are expected from 15-30 Jul. Quiet to active levels are expected from 31 Jul-02 Aug with minor storm levels expected on 01 Aug due to a recurrent negative polarity CH HSS. Mostly quiet conditions are expected to return from 03-05 Aug. Active to minor storm conditions are expected from 06-07 Aug due to a positive polarity



CH HSS followed by quiet to unsettled conditions on 08 Aug as effects subside.



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
06 July	133	109	630	B5.8	10	2	0	24	0	1	0	0
07 July	133	118	700	B5.2	7	0	0	13	1	0	0	0
08 July	129	131	840	B3.9	1	0	0	2	0	0	0	0
09 July	122	120	820	B3.5	1	0	0	3	0	0	0	0
10 July	129	124	710	B4.1	1	0	0	8	0	0	0	0
11 July	120	91	730	B3.9	1	0	0	8	0	0	0	0
12 July	116	59	750	B3.8	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
	06 July	1.9e+05	1.1e+04	2.5e+03		1.4e+07
07 July	1.5e+05	1.2e+04	2.7e+03		2.7e+07	
08 July	1.4e+05	1.1e+04	2.7e+03		4.3e+07	
09 July	1.7e+05	1.1e+04	2.7e+03		5.5e+07	
10 July	5.2e+05	1.1e+04	2.9e+03		9.2e+07	
11 July	1.9e+05	1.1e+04	2.5e+03		7.1e+05	
12 July	2.1e+05	1.1e+04	2.6e+03		2.0e+07	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	06 July	9	3-4-2-1-2-1-2-1	18	4-3-5-4-3-1-2-1	10
07 July	5	2-1-1-2-2-1-2-1	5	3-1-2-2-1-1-0-1	5	3-1-1-1-1-1-1-1
08 July	5	1-1-1-1-2-2-2-2	5	2-1-2-2-1-2-1-1	5	1-1-1-1-1-2-2-1
09 July	7	1-3-1-2-2-2-2-1	7	2-2-2-1-3-2-1-1	6	1-3-1-1-2-1-1-1
10 July	11	1-1-1-1-2-2-3-5	0	1-1-0-0-0-1-1-0	10	1-1-1-0-1-1-2-5
11 July	20	4-5-3-3-3-3-2-3	44	6-6-5-4-5-5-3-2	23	4-5-4-3-3-3-4-3
12 July	12	3-3-2-2-3-2-3-3	18	3-3-4-5-3-2-2-2	11	3-3-2-3-2-2-3-3

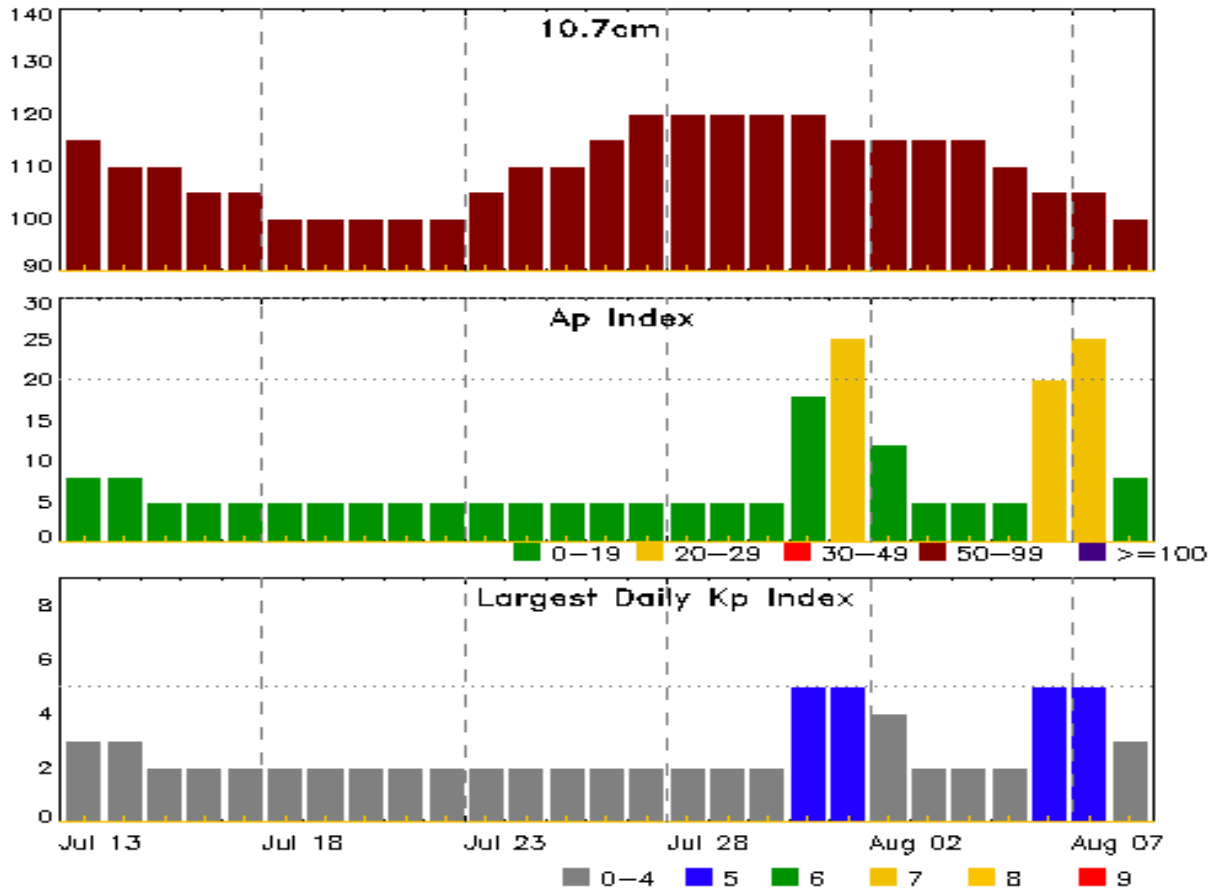


Alerts and Warnings Issued

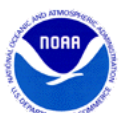
Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
06 Jul 0209	WARNING: Geomagnetic K = 4	06/0208 - 1100
06 Jul 0256	ALERT: Geomagnetic K = 4	06/0255
08 Jul 2119	WATCH: Geomagnetic Storm Category G1 predicted	
09 Jul 1411	ALERT: Electron 2MeV Integral Flux \geq 1000pfu	09/1355
10 Jul 1054	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	09/1355
10 Jul 2200	WARNING: Geomagnetic K = 4	10/2200 - 11/1400
10 Jul 2241	WARNING: Geomagnetic K = 5	10/2240 - 11/0600
10 Jul 2245	ALERT: Geomagnetic K = 5	10/2244
10 Jul 2252	ALERT: Geomagnetic K = 4	10/2236
10 Jul 2301	WARNING: Geomagnetic Sudden Impulse expected	10/2320 - 11/0020
10 Jul 2301	WARNING: Geomagnetic K = 6	10/2300 - 11/0300
10 Jul 2301	WATCH: Geomagnetic Storm Category G2 predicted	
11 Jul 0245	EXTENDED WARNING: Geomagnetic K = 4	10/2200 - 11/1600
11 Jul 0245	EXTENDED WARNING: Geomagnetic K = 6	10/2300 - 11/0900
11 Jul 0245	EXTENDED WARNING: Geomagnetic K = 5	10/2240 - 11/1300
11 Jul 0442	ALERT: Geomagnetic K = 5	11/0442
11 Jul 1210	CANCELLATION: Geomagnetic Storm Category G2 predicted	
11 Jul 2049	WARNING: Geomagnetic K = 4	11/2048 - 12/0300
11 Jul 2103	ALERT: Geomagnetic K = 4	11/2059
12 Jul 0215	EXTENDED WARNING: Geomagnetic K = 4	11/2048 - 12/1000



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
13 Jul	115	8	3	27 Jul	120	5	2
14	110	8	3	28	120	5	2
15	110	5	2	29	120	5	2
16	105	5	2	30	120	5	2
17	105	5	2	31	120	18	5
18	100	5	2	01 Aug	115	25	5
19	100	5	2	02	115	12	4
20	100	5	2	03	115	5	2
21	100	5	2	04	115	5	2
22	100	5	2	05	110	5	2
23	105	5	2	06	105	20	5
24	110	5	2	07	105	25	5
25	110	5	2	08	100	8	3
26	115	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 245	Radio Flux 2695	Intensity II	Intensity IV
06 Jul	0824	0844	0859	M1.0	0.012	SN	N17E42	2381				
06 Jul	2032	2040	2050	M1.7	0.012	2N	N18E36	2381				

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical Location Lat CMD	Rgn #
	Begin	Max	End				
06 Jul	0027	0213	0237	C1.4	SF	N14E44	2381
06 Jul	0256	0256	0305		SF	N14E44	2381
06 Jul	0400	0407	0412	C1.2			2381
06 Jul	0433	0445	0451		SF	N18E45	2381
06 Jul	0442	0443	0451		SF	N13W25	2373
06 Jul	0538	0539	0548		SF	N12W15	2373
06 Jul	0624	0625	0633		SF	N14E43	2381
06 Jul	0636	0646	0653		SF	N14E43	2381
06 Jul	0731	0750	0802	C2.5	SF	N17E42	2381
06 Jul	0824	0844	0859	M1.0	SN	N17E42	2381
06 Jul	1041	1052	1057	C1.3	SF	N17E40	2381
06 Jul	1112	1119	1130	C1.9	SF	N17E40	2381
06 Jul	1136	1142	1146	C5.7	SF	N17E42	2381
06 Jul	1329	1329	1334		SF	N11W24	2373
06 Jul	1452	1453	1517		SF	N11W24	2373
06 Jul	1458	1459	1502		SF	N15E30	2381
06 Jul	1526	1531	1537	C2.2			
06 Jul	1549	U1551	1557		SF	N11W25	2373
06 Jul	1619	1622	1625	C3.5	SF	N16E39	2381
06 Jul	1631	1702	1739	C4.9	SF	N17E37	2381
06 Jul	1831	1832	1836		SF	N16E29	2381
06 Jul	1907	1910	1915		SF	N16E29	2381
06 Jul	1917	1918	1944		SF	N16E29	2381
06 Jul	1957	2040	2120	M1.7	2N	N18E36	2381
06 Jul	2129	2134	2144		SF	N18E36	2381
06 Jul	2306	2309	2343	C1.5	SF	N18E33	2381
06 Jul	2348	2350	2358		SF	N18E33	2381
07 Jul	0021	0021	0024		SF	N14E41	2381
07 Jul	0207	0208	0214		SF	N13E33	2381



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/Brtns	Location Lat CMD	Rgn #
07 Jul	0252	0256	0322	C1.3	SF	N12E30	2381
07 Jul	0346	0353	0358	C1.1			2381
07 Jul	0347	0408	0509	C2.7	1F	N14E32	2381
07 Jul	B0640	0644	0648		SF	N13E30	2381
07 Jul	0728	0812	0837	C1.1			
07 Jul	0730	0731	0740		SF	N13E30	2381
07 Jul	1300	1302	1304		SF	N16E26	2381
07 Jul	1539	1540	1551		SF	N15E23	2381
07 Jul	1602	1621	1626		SF	N14E20	2381
07 Jul	1707	1707	1709		SF	N15E21	2381
07 Jul	1727	1731	1737	C1.4	SF	N15E21	2381
07 Jul	B1807	1807	1809		SF	N12E19	2381
07 Jul	1852	1853	1856		SF	N14E21	2381
07 Jul	1920	1928	1933	C1.1	SF	N13E21	2381
07 Jul	2304	2310	2313	C1.5			2381
08 Jul	0927	0927	0930		SF	N12E09	2381
08 Jul	1100	1106	1110	C1.0			
08 Jul	1700	1703	1707		SF	S07W04	2383
09 Jul	0331	0337	0350	C1.9	SF	N13E01	2381
09 Jul	0743	0746	0748		SF	S22E67	2384
09 Jul	1000	1000	1009		SF	S17W24	2379
09 Jul	1821	1828	1832	B9.7			2373
10 Jul	0121	0126	0130	B7.3	SF	S22E54	2384
10 Jul	0853	U0901	A0903		SF	N05W45	2385
10 Jul	B1127	U1127	1130		SF	N05W46	2385
10 Jul	1159	1202	1205		SF	N05W48	2385
10 Jul	1209	1210	1217		SF	N05W47	2385
10 Jul	B1459	U1515	A1554		SF	N08W48	2385
10 Jul	B1601	1606	A1623	C1.1	SF	N08W48	2385
10 Jul	1930	1930	A1939		SF	N08W51	2385
10 Jul	2342	2345	2349	B7.1			2385
11 Jul	0511	0513	0516		SF	N06W59	2385
11 Jul	B1305	1344	1350		SF	N08W51	2385
11 Jul	1354	1400	1421		SF	N08W51	2385
11 Jul	1430	1432	1441		SF	N08W62	2385
11 Jul	1554	1609	1631		SF	N08W62	2385
11 Jul	1827	1836	1841	C1.0	SF	N08W63	2385
11 Jul	2032	2034	2036		SF	N08W65	2385



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
11 Jul	2311	2317	2325	B9.2	SF	N08W67	2385
12 Jul	1040	1051	1103	B6.2			2385
12 Jul	1202	1224	1235	B6.9			2385



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 2373																		
28 Jun	N15E67	143	80	5	Dso	3	B											
29 Jun	N15E55	141	120	20	Fso	4	B	3				2	1					
30 Jun	N15E41	142	100	10	Cao	5	B					1						
01 Jul	N16E29	141	150	9	Dso	8	B					1						
02 Jul	N16E15	141	130	8	Cso	6	B	2				1	1					
03 Jul	N16W00	143	110	8	Cso	7	B	2				3						
04 Jul	N16W14	144	100	8	Cso	8	B											
05 Jul	N16W27	144	70	5	Cso	5	B											
06 Jul	N15W40	144	80	3	Cso	3	B					5						
07 Jul	N16W55	144	50	2	Hsx	1	A											
08 Jul	N16W67	144	40	2	Hsx	1	A											
09 Jul	N16W81	145	40	1	Hsx	1	A											
10 Jul	N16W93	144	30	1	Hsx	1	A											
								7	0	0	13	2	0	0	0	0		

Crossed West Limb.
 Absolute heliographic longitude: 143

Region 2375																		
29 Jun	S12E69	127	50	2	Hsx	1	A											
30 Jun	S10E56	127	70	2	Hax	1	A											
01 Jul	S09E44	126	80	2	Hsx	1	A											
02 Jul	S10E30	126	40	2	Hsx	1	A											
03 Jul	S10E17	126	30	2	Hsx	1	A											
04 Jul	S10E04	126	40	2	Hsx	1	A											
05 Jul	S11W09	126	60	2	Hsx	1	A											
06 Jul	S11W22	126	60	2	Hsx	2	A											
07 Jul	S10W36	126	50	2	Hsx	1	A											
08 Jul	S09W49	126	50	2	Hsx	1	A											
09 Jul	S09W62	126	50	2	Hsx	1	A											
10 Jul	S09W75	126	40	1	Hsx	1	A											
11 Jul	S09W89	127	40	1	Hax	1	A											
								0	0	0	0	0	0	0	0	0	0	

Crossed West Limb.
 Absolute heliographic longitude: 126



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 2376																								
28 Jun	N13E86		126		plage							1												
29 Jun	N13E71		126		plage							2												
30 Jun	N13E57		126	100	12	Eao	5	BG				2		1										
01 Jul	N13E46		124	150	14	Eai	10	BG				1												
02 Jul	N13E32		124	120	14	Eao	11	B				3		1	1									
03 Jul	N12E16		127	100	13	Eao	12	B						1										
04 Jul	N12E02		128	90	9	Dao	7	B						1										
05 Jul	N12W10		127	60	10	Dao	8	B						1										
06 Jul	N12W24		128	50	10	Cao	9	B																
07 Jul	N12W38		127	60	13	Cao	8	B																
08 Jul	N12W55		130	10	2	Axx	2	A																
09 Jul	N12W70		133	10	2	Axx	3	A																
10 Jul	N12W84		135		plage																			
													9	0	0	5	1	0	0	0				

Crossed West Limb.

Absolute heliographic longitude: 128

Region 2377

02 Jul	S11W36		192	10	2	Hrx	1	A																
03 Jul	S10W52		195	10	1	Axx	1	A																
04 Jul	S10W65		195	10	1	Axx	1	A																
05 Jul	S10W79		196	10	1	Axx	1	A																
													0	0	0	0	0	0	0	0	0			

Crossed West Limb.

Absolute heliographic longitude: 192



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 2378																		
02 Jul	S15E64	92	40	5	Cso	4	B											
03 Jul	S17E56	87	80	4	Dso	5	B	5	1			13	1					
04 Jul	S16E44	86	90	4	Cso	4	B	1				1						
05 Jul	S17E32	85	70	5	Cso	6	B					2						
06 Jul	S17E18	86	60	2	Hax	3	A											
07 Jul	S17E03	86	50	2	Hsx	3	A											
08 Jul	S16W09	86	50	3	Hsx	4	A											
09 Jul	S10W23	87	20	1	Hsx	2	A											
10 Jul	S15W33	84	10	7	Bxo	3	B											
11 Jul	S16W49	87	10	1	Axx	1	A											
12 Jul	S16W63	87	plage															
								6	1	0	16	1	0	0	0			

Still on Disk.
Absolute heliographic longitude: 86

Region 2379																		
03 Jul	S15E45	98	10	4	Bxo	5	B											
04 Jul	S14E33	97	20	5	Cro	5	B											
05 Jul	S15E21	96	30	6	Dro	7	B											
06 Jul	S15E07	97	30	6	Dro	7	B											
07 Jul	S13W07	97	20	9	Cro	7	B											
08 Jul	S11W24	100	10	2	Axx	4	A											
09 Jul	S09W39	103	10	2	Bxo	3	B					1						
10 Jul	S11W52	103	10	2	Axx	4	A											
11 Jul	S11W66	104	plage															
12 Jul	S11W80	104	plage															
								0	0	0	1	0	0	0	0	0		

Still on Disk.
Absolute heliographic longitude: 97

Region 2380																		
04 Jul	N08W29	159	10	2	Hrx	1	A											
05 Jul	N09W42	159	10	1	Axx	1	A											
06 Jul	N09W56	160	plage															
07 Jul	N09W70	161	plage															
08 Jul	N09W84	161	plage															
								0	0	0	0	0	0	0	0	0		

Crossed West Limb.
Absolute heliographic longitude: 159



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 2381																		
04 Jul	N16E57		73	30	4	Cro	4	B										
05 Jul	N15E44		73	100	7	Dao	10	B				6						
06 Jul	N14E31		72	350	11	Ekc	14	BG	9	2		19		1				
07 Jul	N14E17		73	450	12	Ekc	25	BG	6			13	1					
08 Jul	N14E03		74	550	14	Eko	28	B				1						
09 Jul	N14W11		74	500	15	Eko	19	B	1			1						
10 Jul	N15W24		75	400	16	Fko	15	B										
11 Jul	N15W37		75	380	16	Fko	11	B										
12 Jul	N15W51		75	360	16	Fko	5	B										
									16	2	0	40	1	1	0	0		

Still on Disk.

Absolute heliographic longitude: 74

Region 2382

05 Jul	S05E02		115	10	1	Bxo	2	B										
06 Jul	S05W13		117	0	1	Axx	1	A										
07 Jul	S05W28		118	plage														
08 Jul	S05W43		120	plage														
09 Jul	S05W58		122	plage														
10 Jul	S05W73		124	plage														
11 Jul	S05W88		126	plage														
									0	0	0	0	0	0	0	0	0	

Crossed West Limb.

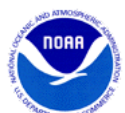
Absolute heliographic longitude: 115

Region 2383

07 Jul	S06E04		85	20	3	Dro	3	B										
08 Jul	S07W10		87	10	5	Bxo	9	B				1						
09 Jul	S06W24		87	50	5	Dso	10	B										
10 Jul	S06W37		88	10	6	Bxo	3	B										
11 Jul	S06W52		90	10	6	Bxo	2	B										
12 Jul	S06W67		91	plage														
									0	0	0	1	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 85



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 2384																							
08 Jul	S18E62		15	120	2	Hsx	2	A															
09 Jul	S17E47		17	140	2	Hsx	1	A					1										
10 Jul	S18E36		15	180	2	Cso	4	B					1										
11 Jul	S18E23		15	180	3	Cao	5	B															
12 Jul	S18E09		15	170	3	Cao	7	B															
													0	0	0	2	0	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 15

Region 2385

10 Jul	N07W53		104	30	3	Dri	13	B	1				7									
11 Jul	N08W68		106	110	7	Dao	11	B	1				8									
12 Jul	N08W82		106	100	8	Dao	6	B														
													2	0	0	15	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 104

Region 2386

12 Jul	N11E71		312	120	4	Hsx	1	A														
													0	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 312

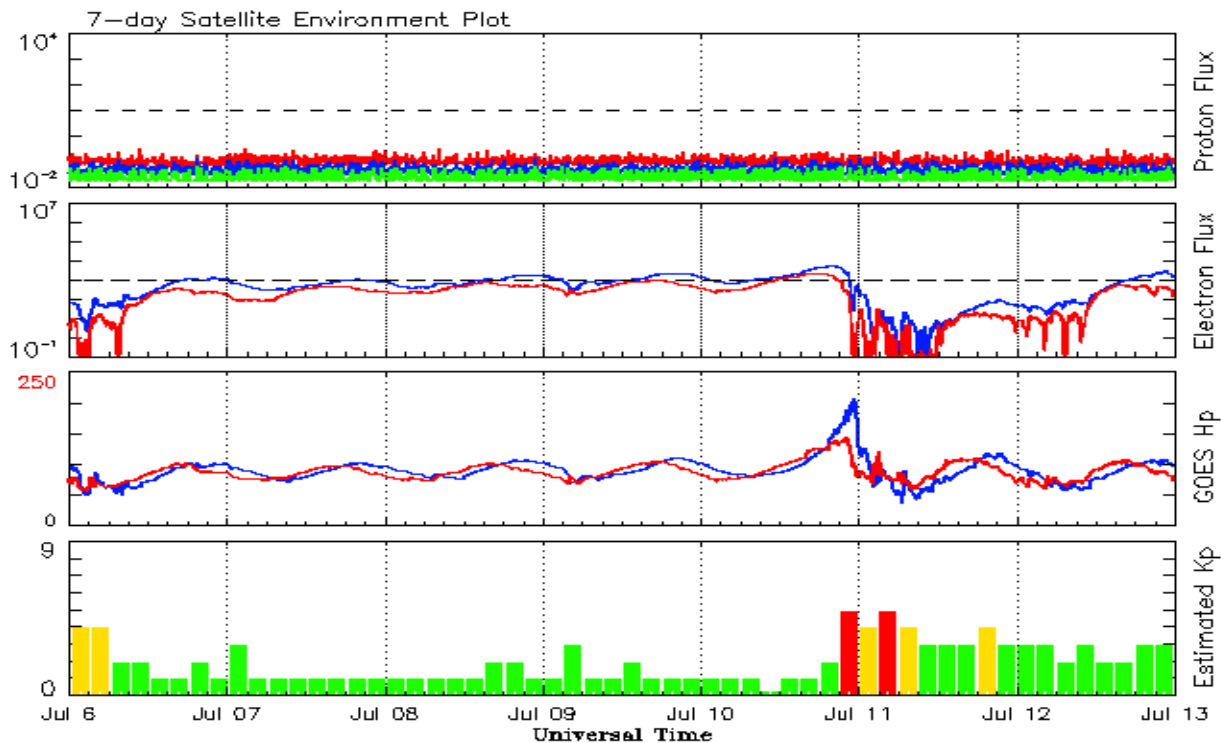


Recent Solar Indices (preliminary)
Observed monthly mean values

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									
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	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
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	
May	83.0	58.8	0.71			120.1		9	
June	77.3	41.0	0.53			123.2		14	

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 06 July 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.

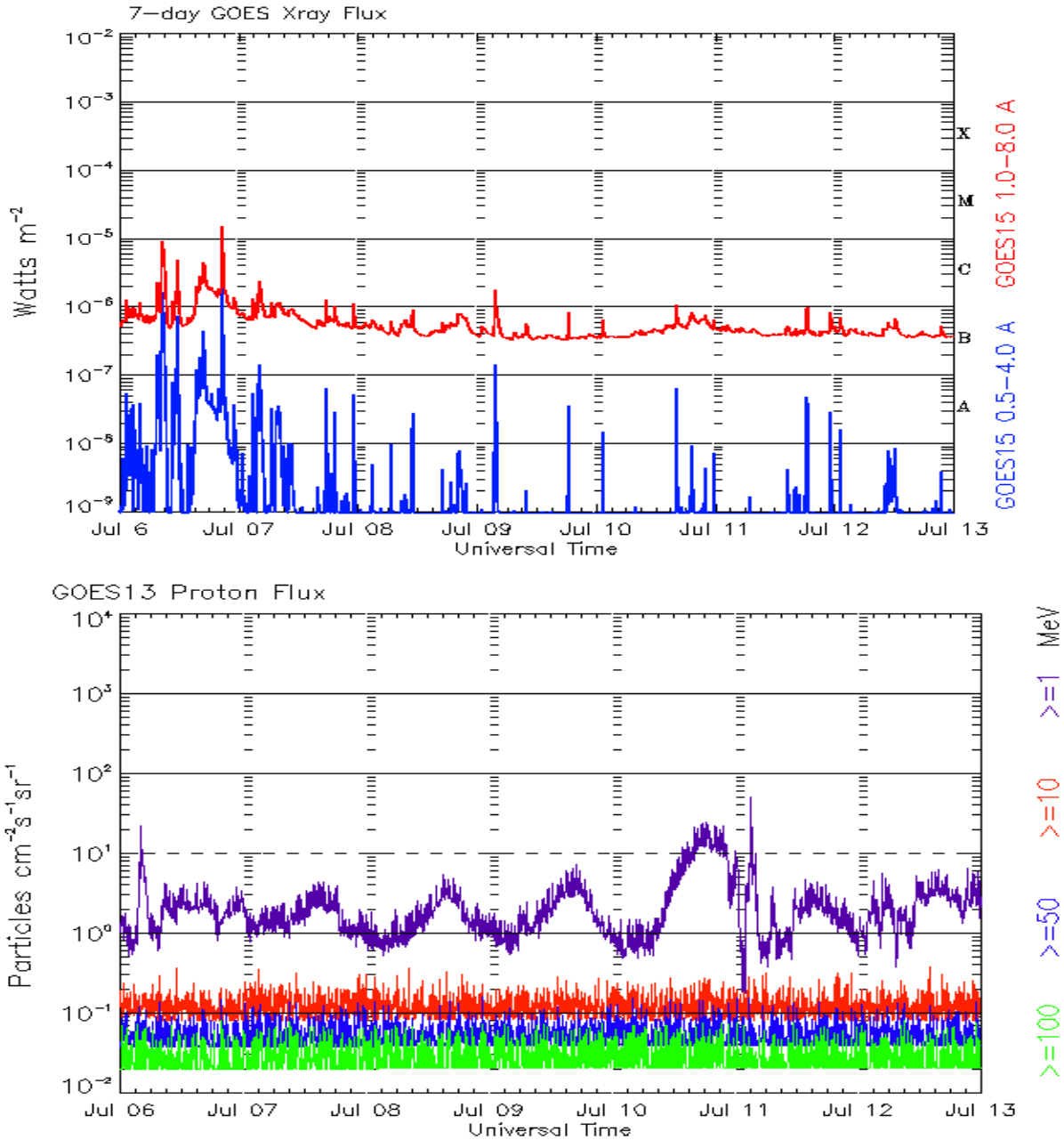
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 06 July 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 integral 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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