

Solar activity was at low levels during the period. The largest flares of the period were a C7/2f at 05/1747 UTC from Region 2253 (S07, L=003, class/area Ekc/900 on 03 January), a C9 at 06/1148 UTC from around the southeast limb likely from old Region 2242 (S18, L=240), and a C9/1n at 09/0817 UTC from Region 2257 (N07, L=322, class/area Dki/480 on 09 January). Region 2253 was in a slow decay phase during the period as it approached the west limb, whereas Region 2257 grew moderately from its inception on 06 January until 10 January while developing a beta-delta magnetic configuration on 09 January. Region 2253 was responsible for the majority of the C-class activity from 05-08 January. Regions 2257 and 2259 (S16, L=241, class/area Eko/310 on 11 January) were largely responsible for the C-class activity during the remaining of the period. No Earth-directed coronal mass ejections (CMEs) were observed during the period.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal to moderate levels. Moderate levels occurred on 06-07 January and again on 09-11 January.

Geomagnetic field activity ranged from quiet to severe storming during the period. The period began under the influence of a negative polarity coronal hole high speed stream (CH HSS) originating from a rather large southern polar coronal hole. Solar wind speeds ranged in the 420 km/s to 530 km/s range with total field reaching as high as 15 nT. Mostly quiet to unsettled levels were observed on 05-06 January with isolated active and minor storm (G1-Minor) periods observed. At approximately 07/0529 UTC, an increase in density and total field was observed without a significant increase in solar wind speeds. Total field increased to a maximum of 23 nT at 07/0852 UTC while the Bz deflected southward to -21 nT at 07/0855 UTC. Bz continued to be negative for five and a half hours before it rotated northward possibly indicative of a transient feature and/or co-rotating interaction region. Phi angle also switched into a positive sector during this time at approximately 07/1035 UTC. By late on 07 January, total field had decreased to around 8 nT with solar wind speeds mostly in the 450 km/s to 500 km/s range. The geomagnetic field responded with major (G2-Moderate) to severe storm (G3-Strong) levels during the 07/0600-1200 UTC periods. Quiet to active periods were observed for the latter half of the day and into 08 January. Solar wind speeds declined towards nominal levels by early on 10 January, however a slow increase to near 600 km/s was observed on 11 January as a positive polarity CH HSS became geoeffective. Quiet to unsettled levels were observed on 09-11 January.

Space Weather Outlook

12 January - 07 February 2015

Solar activity is expected to be at low levels with a chance for moderate levels (R1-R2, Minor-Moderate) from 12 January through 04 February due to possible M-class flare activity from Regions 2255 (S16, L=321, class/area Dai/160 on 04 January) or 2257 and the return of old Regions 2249 (S11, L=165) and 2253 (S07, L=003).



A chance for an S1 (Minor) solar radiation storm is likely from 29 January through the end of the forecast period due to possible significant flare activity from the return of old Region 2253.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at moderate to high levels on 13-14 January, 19-21 January, and again from 26 January through 07 February due to CH HSS activity.

Geomagnetic field activity is expected to reach unsettled levels on 12-13 January, 17-19 January, 21-22 January, 24-27 January, 29 January-04 February, and again on 07 February. Active periods are likely on 22 January, 25 January, 31 January-01 February, and on 03 February due to recurrent CH HSS interaction.



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 January	142	89	920	B7.2	6	0	0	8	1	1	0	0
06 January	142	102	680	B7.2	6	0	0	4	1	0	0	0
07 January	147	106	490	B7.0	6	0	0	6	1	0	0	0
08 January	157	101	550	B8.0	5	0	0	3	1	0	0	0
09 January	151	125	980	B7.7	5	0	0	2	1	0	0	0
10 January	152	146	940	B6.9	5	0	0	7	0	0	0	0
11 January	154	133	980	B8.2	8	0	0	14	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
	05 January	1.8e+05	1.1e+04	2.6e+03		3.0e+06
06 January	4.4e+05	1.1e+04	2.5e+03		2.1e+07	
07 January	7.9e+05	1.1e+04	2.4e+03		2.4e+06	
08 January	3.9e+05	1.1e+04	2.8e+03		1.5e+06	
09 January	1.2e+05	1.1e+04	2.8e+03		6.1e+06	
10 January	3.0e+05	1.2e+04	3.0e+03		2.7e+07	
11 January	1.4e+05	1.2e+04	3.0e+03		1.7e+07	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	05 January	10	4-2-2-2-2-2-2-2	18	4-3-4-3-3-3-3-3	18
06 January	11	2-2-3-3-2-3-3-1	20	2-2-4-5-4-4-3-0	13	2-3-3-4-2-3-3-2
07 January	23	2-2-5-5-4-3-2-4	59	2-0-7-8-5-3-3-2	38	3-1-6-7-4-2-3-4
08 January	15	3-5-3-2-2-3-1-2	23	3-3-3-4-5-5-2-2	16	4-4-3-2-2-3-2-3
09 January	7	2-1-3-2-2-2-1-1	8	2-1-2-2-4-2-1-0	8	3-2-3-2-2-2-2-2
10 January	9	1-3-2-2-3-3-2-1	18	1-2-2-5-5-4-1-0	10	2-3-2-2-3-3-1-0
11 January	8	3-1-3-2-2-1-2-1	18	1-1-5-5-4-2-2-1	10	3-2-3-2-2-1-2-2

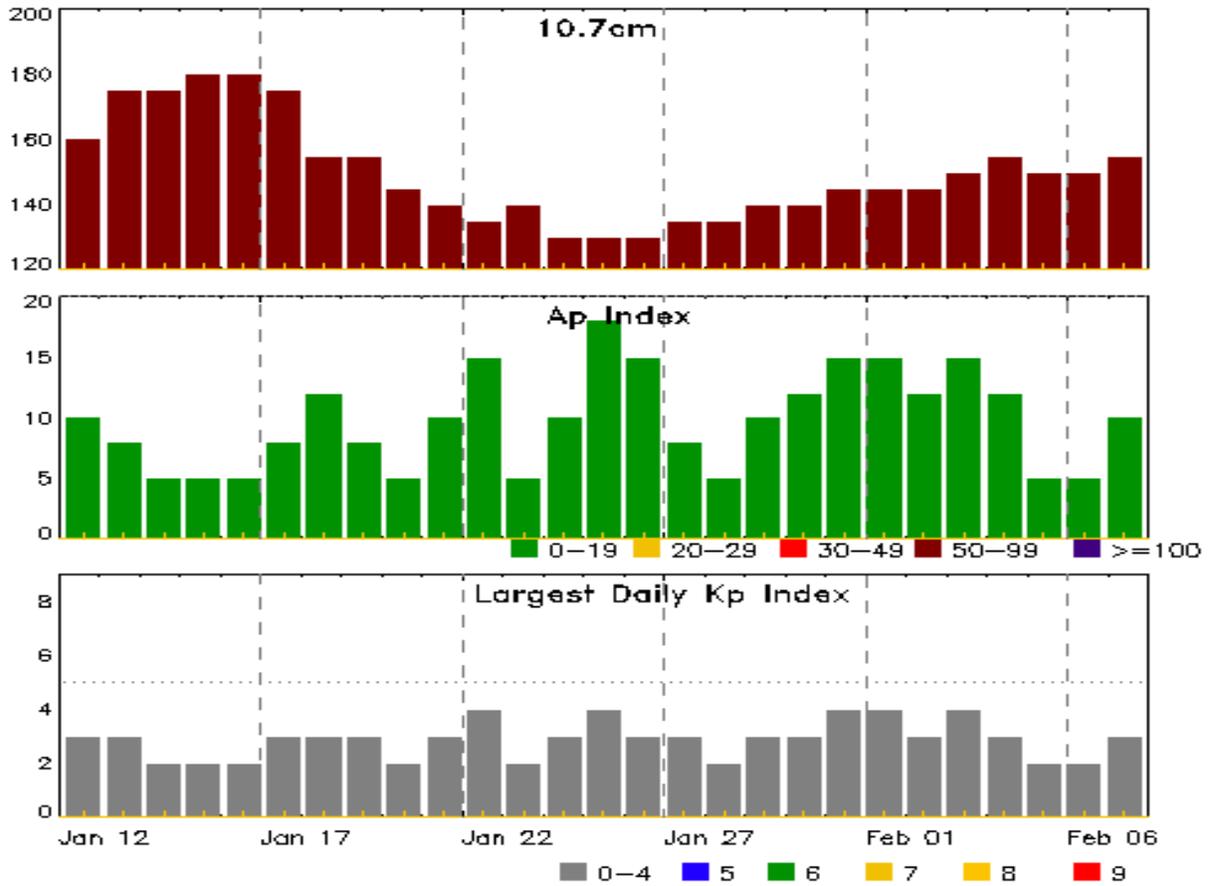


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
05 Jan 0034	EXTENDED WARNING: Geomagnetic K = 4	04/1106 - 06/0100
05 Jan 0634	EXTENDED WARNING: Geomagnetic K = 4	04/1106 - 05/2200
05 Jan 0634	EXTENDED WARNING: Geomagnetic K = 5	04/1555 - 05/1400
05 Jan 0636	EXTENDED WARNING: Geomagnetic K = 4	04/1106 - 06/0100
06 Jan 0919	WARNING: Geomagnetic K = 4	06/0918 - 1900
06 Jan 0951	ALERT: Geomagnetic K = 4	06/0946
07 Jan 0631	WARNING: Geomagnetic K = 4	07/0632 - 1300
07 Jan 0658	WARNING: Geomagnetic K = 5	07/0700 - 1200
07 Jan 0823	ALERT: Geomagnetic K = 4	07/0817
07 Jan 0849	ALERT: Geomagnetic K = 5	07/0848
07 Jan 0901	WARNING: Geomagnetic K = 6	07/0858 - 1200
07 Jan 0902	ALERT: Geomagnetic K = 6	07/0859
07 Jan 1122	WARNING: Geomagnetic K \geq 7	07/1122 - 1500
07 Jan 1123	EXTENDED WARNING: Geomagnetic K = 5	07/0700 - 1500
07 Jan 1123	EXTENDED WARNING: Geomagnetic K = 5	07/0700 - 1500
07 Jan 1123	EXTENDED WARNING: Geomagnetic K = 6	07/0858 - 1500
07 Jan 1126	ALERT: Geomagnetic K = 7	07/1125
07 Jan 1126	ALERT: Geomagnetic K = 7	07/1125
07 Jan 1147	EXTENDED WARNING: Geomagnetic K = 4	07/0632 - 2100
07 Jan 1428	EXTENDED WARNING: Geomagnetic K = 5	07/0700 - 2100
07 Jan 2041	WATCH: Geomagnetic Storm Category G1 predicted	
07 Jan 2055	EXTENDED WARNING: Geomagnetic K = 4	07/0632 - 08/0700
08 Jan 0449	WARNING: Geomagnetic K = 5	08/0450 - 0700
08 Jan 0933	WARNING: Geomagnetic K = 4	08/0945 - 1500
10 Jan 0408	WARNING: Geomagnetic K = 4	10/0408 - 1400
10 Jan 1355	EXTENDED WARNING: Geomagnetic K = 4	10/0408 - 11/0111
11 Jan 0715	WARNING: Geomagnetic K = 4	11/0714 - 1700



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 Jan	160	10	3	26 Jan	130	15	3
13	175	8	3	27	135	8	3
14	175	5	2	28	135	5	2
15	180	5	2	29	140	10	3
16	180	5	2	30	140	12	3
17	175	8	3	31	145	15	4
18	155	12	3	01 Feb	145	15	4
19	155	8	3	02	145	12	3
20	145	5	2	03	150	15	4
21	140	10	3	04	155	12	3
22	135	15	4	05	150	5	2
23	140	5	2	06	150	5	2
24	130	10	3	07	155	10	3
25	130	18	4				



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				
05 Jan	0030	0038	0046		SF	S06W04	2253
05 Jan	0204	0209	0211	C2.0	SF	S07W07	2253
05 Jan	0817	U0821	A0849	C3.5	SN	S09W02	2253
05 Jan	B0907	U0910	A0912		SF	S09W02	2253
05 Jan	B0915	U0915	A0934		SF	S07W06	2253
05 Jan	B1058	U1143	A1229		SF	S05W08	2253
05 Jan	1452	1459	1517	C3.9			
05 Jan	1658	1744	1849	C7.4	2F	S07W12	2253
05 Jan	2028	2031	2034		SF	S04W15	2253
05 Jan	2200	2212	2241	C4.1	1F	S06W15	2253
05 Jan	2307	2320	2336	C4.4	SF	S11W64	2251
06 Jan	0424	0451	0516		SF	S08W16	2253
06 Jan	0516	0531	0558	C6.0	1F	S09W16	2253
06 Jan	0934	0943	0951	C2.2	SF	S08W17	2253
06 Jan	1140	1148	1153	C9.7			
06 Jan	1325	1328	1340	C1.4	SF	N06E17	2257
06 Jan	1710	1714	1718	C1.7	SF	S09W21	2253
06 Jan	2158	2204	2211	C1.9			
07 Jan	0306	0312	0330	C1.2			2253
07 Jan	0331	0331	0332		SF	S08W30	2253
07 Jan	0559	0606	0612	C1.8			
07 Jan	0958	1006	1016	C1.2			
07 Jan	1030	1036	1040	C1.3			
07 Jan	1143	1151	1201	C4.3	1N	S09W35	2253
07 Jan	1232	1233	1236		SF	S09W36	2253
07 Jan	1455	1500	1507	C2.1	SF	S16E78	
07 Jan	1552	1553	1558		SF	S08W37	2253
07 Jan	1719	1719	1726		SF	N07E03	2257
07 Jan	2141	2144	2151		SF	N06W00	2257
08 Jan	0020	0024	0026	C1.6			2259
08 Jan	0145	0145	0148		SF	S08W43	2253



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
08 Jan	0411	0416	0420	C1.3			2251
08 Jan	0425	0434	0439	C4.2	1F	S09W44	2253
08 Jan	0538	0538	0543		SF	S09W44	2253
08 Jan	1300	1300	1306		SF	N11E32	
08 Jan	1541	1548	1556	C2.6			2258
08 Jan	1958	2010	2015	C1.6			2259
09 Jan	0423	0428	0430		SF	N06W18	2257
09 Jan	0546	0554	0559	C3.4	SF	S17E64	2259
09 Jan	0804	0817	0834	C9.6	1N	N06W18	2257
09 Jan	1726	1748	1801	C1.8			2257
09 Jan	1842	1853	1900	C1.3			2259
09 Jan	2216	2228	2240	C1.9			2257
10 Jan	0143	0153	0206	C2.1	SF	N06W27	2257
10 Jan	0245	0252	0256	C1.2			2257
10 Jan	0247	0248	0249		SF	N05W29	2257
10 Jan	0250	0251	0256		SF	N05W29	2257
10 Jan	0441	0444	0448		SF	S16E43	2259
10 Jan	0458	0508	0514	C1.1	SF	S16E44	2259
10 Jan	1023	1024	1028		SF	S09E49	2259
10 Jan	1114	1133	1154	C3.3	SF	N05W33	2257
10 Jan	2300	2318	2330	C1.6			2253
11 Jan	0156	0253	0330	C3.3			2257
11 Jan	0417	0437	0444		SF	N06W43	2257
11 Jan	0511	0543	0600	C4.2			
11 Jan	0814	0924	1025	C3.4	SF	N08W44	2257
11 Jan	0848	0848	0850		SF	S17E39	2259
11 Jan	B0907	U0911	A0935		SF	N02W46	2257
11 Jan	0942	0943	0946		SF	N04W46	2257
11 Jan	1149	1210	1223	C1.5			2259
11 Jan	1331	1331	1333		SF	N07W48	2257
11 Jan	1350	1352	1400		SF	N08W12	2260
11 Jan	1403	1406	1415		SF	N06W49	2257
11 Jan	1442	1514	1534	C1.6			
11 Jan	1820	1828	1833	C1.3			2257
11 Jan	1954	2046	2103	C1.6			2260
11 Jan	1958	1959	2027		SF	S19W45	2255
11 Jan	2035	2058	2109		SF	N09W16	2260
11 Jan	2209	2217	2255		SF	N08W16	2260



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
11 Jan	2245	2245	2249		SF	S18W46	2255
11 Jan	2319	2321	2327		SF	N08W17	2260
11 Jan	2329	2332	2335	C1.4	SF	S02W29	2262



Region Summary

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 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 2251																		
27 Dec	S11E58		47	20		Hrx	1	A										
28 Dec	S12E45		46	30	4	Cao	7	BG	1			2	1					
29 Dec	S15E32		45	50	6	Cai	14	B				7						
30 Dec	S09E18		46	210	8	Dac	17	BG	1			2						
31 Dec	S13E05		47	190	8	Dai	11	B	2			1						
01 Jan	S13W09		48	140	9	Dao	6	BG										
02 Jan	S12W21		47	160	9	Dso	5	B										
03 Jan	S13W35		47	160	9	Dao	6	B										
04 Jan	S13W48		47	100	8	Dso	5	B										
05 Jan	S13W60		45	70	7	Dao	3	B	1			1						
06 Jan	S13W74		46	60	2	Hax	1	A										
07 Jan	S13W89		48	50	2	Hax	1	A										
									5	0	0	13	1	0	0	0	0	

Crossed West Limb.

Absolute heliographic longitude: 47



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 2257																							
06 Jan	N05E12		320	40	4	Dao	3	B	1														
07 Jan	N05W01		320	100	7	Dai	13	B					2										
08 Jan	N05W16		321	170	7	Dai	19	B															
09 Jan	N07W29		322	480	8	Dki	28	BD	3				1	1									
10 Jan	N07W42		322	470	11	Ekc	35	BD	3				4										
11 Jan	N07W55		322	450	11	Ekc	24	BGD	3				6										
									10	0	0		13	1	0	0	0	0					

Still on Disk.
Absolute heliographic longitude: 320

Region 2258																							
06 Jan	N14E71		261	10	1	Axx	1	A															
07 Jan	N12E58		261	30	1	Hrx	1	A															
08 Jan	N13E51		254	30	11	Cro	6	B	1														
09 Jan	N13E38		255	30	12	Cro	3	B															
10 Jan	N14E25		255	20	13	Cro	4	B															
11 Jan	N16E12		255	10	2	Bxo	3	B															
									1	0	0		0	0	0	0	0	0	0				

Still on Disk.
Absolute heliographic longitude: 255

Region 2259																							
08 Jan	S18E62		244	200	11	Eao	6	B	2														
09 Jan	S18E50		243	280	11	Eko	5	BG	2				1										
10 Jan	S18E38		242	290	12	Eko	9	BG	1				3										
11 Jan	S16E26		241	310	11	Eko	8	BG	1				1										
									6	0	0		5	0	0	0	0	0					

Still on Disk.
Absolute heliographic longitude: 241

Region 2260																							
09 Jan	N09E11		282	40	6	Dao	8	B															
10 Jan	N09W02		282	30	9	Cro	7	B															
11 Jan	N09W17		284	30	3	Cro	4	B	1				4										
									1	0	0		4	0	0	0	0	0					

Still on Disk.
Absolute heliographic longitude: 282



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 2261

09 Jan	S10E72	221	30	1	Hsx	1	A										
10 Jan	S11E57	223	30	2	Hsx	1	A										
11 Jan	S11E45	222	30	2	Hsx	2	A										
									0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 222

Region 2262

10 Jan	S00W18	298	20	3	Cro	3	B										
11 Jan	S01W31	298	20	4	Cro	4	B	1			1						
								1	0	0	1	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 298

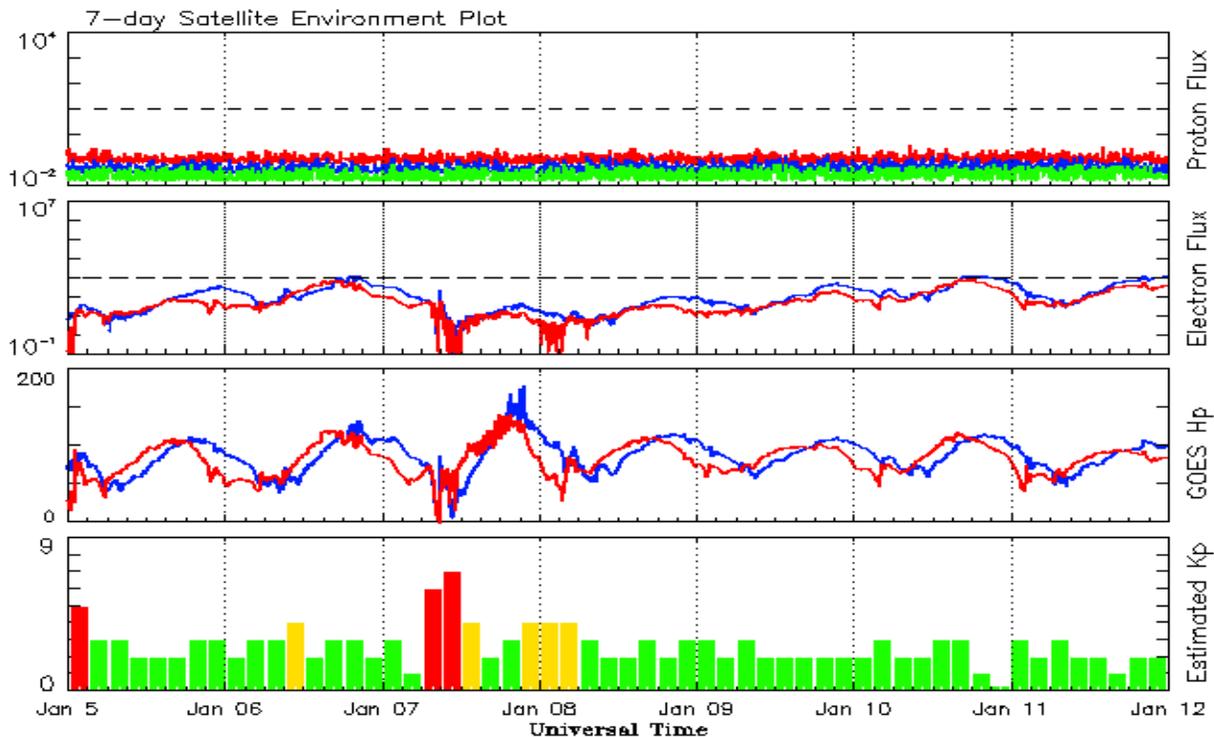


Recent Solar Indices (preliminary)
Observed monthly mean values

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									
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	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			137.3		5	
August	106.2	74.6	0.70			124.7		9	
September	127.4	87.6	0.69			146.1		11	
October	92.0	60.6	0.66			153.7		10	
November	101.8	70.1	0.69			155.3		10	
December	120.0	78.0	0.65			158.7		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 05 January 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.

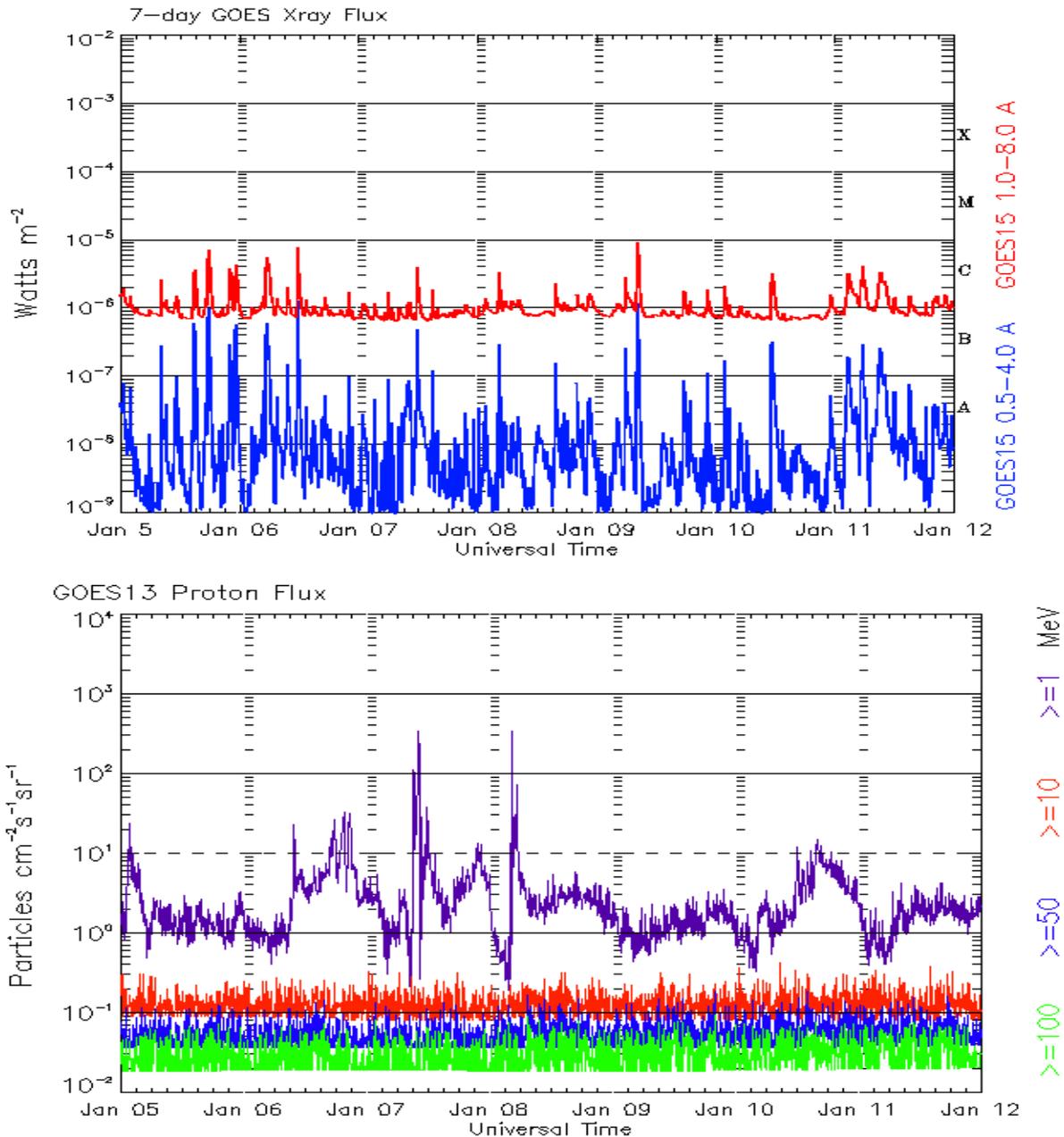
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 05 January 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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