Solar activity was low. Isolated to occasional C-class flares occurred on each day of the period. Regions 1302 (N13, L=280, class/area Fkc/1070 on 28 September), 1305 (N12, L=248, class/area Chi/250 on 03 October), and 1313 (S15, L=117, class/area Dai/180 on 06 October) were the principal flare producers during the period. The largest flare of the period was a C9/Sf at 05/1242 UTC from Region 1313. No earth-directed CMEs were observed during the period.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit reached high levels during 03 - 05 October. Normal to moderate levels were observed during 06 - 09 October.

Geomagnetic field activity was at quiet to unsettled levels during 03 - 04 October. Activity increased to quiet to minor storm levels on 05 October following a geomagnetic sudden impulse at 05/0742 UTC (19 nT, Boulder USGS magnetometer), with major storm levels observed at high latitudes, due to multiple CME passages at Earth. Activity decreased to quiet to unsettled levels during 06 - 08 October. An increase to quiet to (briefly) active levels occurred on 09 October associated with a solar sector boundary change.

#### Space Weather Outlook 12 October - 07 November 2011

Solar activity is expected to be at very low to low levels during 12 - 17 October, with a slight chance for moderate levels. An increase to low levels is expected during 18 - 23 October, with a chance for moderate levels and a slight chance for high levels; due to the returns of old Regions 1302 and 1305 on 18 October and 20 October, respectively.

No proton events are expected at geosynchronous orbit. There will be a slight chance for a proton event at geosynchronous orbit during 18 - 31 October due to the return of old Region 1302.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal to moderate levels during 12 - 27 October. Flux levels are expected to increase to moderate to high levels during 28 October - 01 November in response to coronal hole high-speed stream (CH HSS) effects. Flux levels are expected to decrease to normal to moderate levels during 02 - 07 November.

Geomagnetic field activity is expected to be at quiet levels during most of the period. However, quiet to unsettled levels are expected during 15 - 17 October, 28 - 30 October, and 03 - 05 November due to CH HSS effects.



### Daily Solar Data

	Radio	Sun	Sunspot	X-ray				Flare	s				
	Flux	spot	Area	Background		X-ra	<u>y</u>	_		Op	tica	.1	
Date	10.7cm	No.	(10 <sup>-6</sup> hemi.)	Flux	C	M	X	Ş	5	1	2	3	4
03 October	129	85	785	B3.9	2	0	0	3	3 (	)	1	0	0
04 October	130	126	1015	B4.3	1	0	0	1	[ (	)	0	0	0
05 October	127	100	850	B5.6	5	0	0	۷	1 (	)	0	0	0
06 October	124	99	880	B4.4	3	0	0	(	5 (	)	0	0	0
07 October	122	88	790	B3.9	4	0	0	3	3	1	0	0	0
08 October	118	61	450	B3.3	1	0	0	(	) (	)	0	0	0
09 October	121	71	600	B3.0	1	0	0	(	) (	)	0	0	0

# Daily Particle Data

	(pro	Proton Fluen otons/cm <sup>2</sup> -da		_	Electron Fluer trons/cm <sup>2</sup> -da						
Date	>1 MeV	>10 MeV	>100 MeV	>0.6 MeV	>2MeV	>4 MeV					
03 October	4.5e+05	1.3e+04	3.2e+03		9.8e+07						
04 October	4.9e + 05	1.5e+04	3.4e+03		1.3e+08						
05 October	1.6e+06	1.6e + 04	2.7e+03		4.0e+07						
06 October	1.2e+06	1.4e+04	2.8e+03		1.1e+07						
07 October	4.9e + 05	1.3e+04	3.1e+03		4.0e + 06						
08 October	1.6e+06	1.3e+04	3.2e+03		7.0e + 06						
09 October	2.0e+05	1.2e+04	2.9e+03		1.0e+06						

### Daily Geomagnetic Data

	N	Middle Latitude		High Latitude	Estimated				
	I	Fredericksburg		College		Planetary			
Date	A	K-indices	A	K-indices	A	K-indices			
03 October	3 0-0-1-1-2-1-1-1		11	0-0-4-4-3-3-1-1	6	0-0-1-2-2-3-2-2			
04 October	4	1-0-2-1-2-2-1-0	10	1-0-4-4-2-3-1-0	6	2-0-2-2-2-2-1			
05 October	12	1-2-2-3-3-3-3	32	1-1-1-6-6-6-2-1	20	2-2-2-3-5-5-3-3			
06 October	6	1-2-1-1-2-2-2	10	2-2-1-1-4-4-1-1	7	1-2-1-1-2-3-2-2			
07 October	4	2-2-2-1-1-0-1-1	14	1-2-5-5-0-0-2-0	7	2-2-2-1-1-1-2			
08 October	5	0-1-2-0-1-1-3-2	6 0-0-2-3-1-2-2-2		7	1-1-1-2-2-3-3			
09 October	8	3-3-2-2-1-2-1-2	13	3-3-4-4-3-1-1-0	13	3-4-3-3-2-2-3			

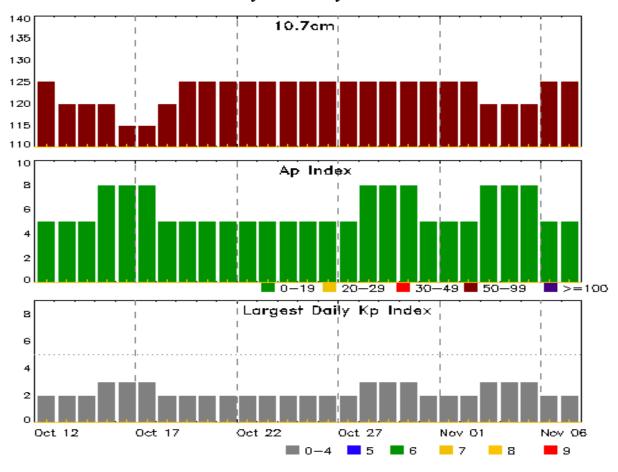


# Alerts and Warnings Issued

Date & Time		Date & Time
of Issue UTC	Type of Alert or Warning	of Event UTC
03 Oct 1101	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	02/1355
04 Oct 1106	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	02/1355
05 Oct 0800	SUMMARY: Geomagnetic Sudden Impulse	05/0742
05 Oct 0805	WARNING: Geomagnetic $K = 4$	05/0805 - 1500
05 Oct 1237	ALERT: Geomagnetic $K = 4$	05/1237
05 Oct 1311	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	02/1355
05 Oct 1315	WARNING: Geomagnetic $K = 5$	05/1315 - 2359
05 Oct 1316	EXTENDED WARNING: Geomagnetic K = 4	05/0805 - 2359
05 Oct 1703	ALERT: Geomagnetic $K = 5$	05/1702
05 Oct 2339	EXTENDED WARNING: Geomagnetic K = 4	05/0805 - 06/1200
08 Oct 2318	WARNING: Geomagnetic $K = 4$	08/2345 - 09/0600
09 Oct 0348	ALERT: Geomagnetic $K = 4$	09/0348
09 Oct 0400	WARNING: Geomagnetic $K = 5$	09/0415 - 0600
09 Oct 0458	EXTENDED WARNING: Geomagnetic K = 4	08/2345 - 09/0900
09 Oct 0856	EXTENDED WARNING: Geomagnetic K = 4	08/2345 - 1500



### Twenty-seven Day Outlook



	Radio Flux	Planetary	Largest		Radio Flux	Planetary	Largest
Date	10.7cm	A Index	Kp Index	Date	10.7cm	-	Kp Index
12 Oct	125	5	2	26 Oct	125	5	2
13	120	5	2	27	125	5	2
14	120	5	2	28	125	8	3
15	120	8	3	29	125	8	3
16	115	8	3	30	125	8	3
17	115	8	3	31	125	5	2
18	120	5	2	01 Nov	125	5	2
19	125	5	2	02	125	5	2
20	125	5	2	03	120	8	3
21	125	5	2	04	120	8	3
22	125	5	2	05	120	8	3
23	125	5	2	06	125	5	2
24	125	5	2	07	125	5	2
25	125	5	2				



# Energetic Events

		Time		X-	-ray	_Optio	cal Informat	ion	P	eak	Sweep	Freq
			Half		Integ	Imp/	Location	Rgn	Radi	o Flux	Inten	sity
Date	Begin	Max	Max	Class	Flux	Brtns	Lat CMD	#	245	2695	II	IV

### **No Events Observed**

### Flare List

				X-ray Imp/ Location Rgn Class Brtns Lat CMD #					
		Time		X-ray	Imp/	Location	Rgn		
Date	Begin	Max	End	Class	Brtns	Lat CMD	#		
03 Oct	0001	0026	0157	C7.6	2N	N14W55	1302		
03 Oct	0234	0244	0253	C2.1	SF	N08W62	1302		
03 Oct	0654	0655	0659		SF	N09W64	1302		
03 Oct	2008	2015	A2031		SF	N15W67	1302		
04 Oct	0856	0923	1002	C7.3	SF	N13W72	1302		
05 Oct	0011	0025	0104	C2.3			1302		
05 Oct	0350	0353	0359	C1.1			1313		
05 Oct	0738	0743	0747	C2.3	SF	S11E79	1313		
05 Oct	B1008	U1014	A1022		SF	S13E68	1313		
05 Oct	1043	1122	1137	C6.1	SF	S13E68	1313		
05 Oct	1236	1242	1256	C9.2	SF	S13E74	1313		
05 Oct	2234	2237	2239	B8.7					
06 Oct	0411	0418	0425	C1.4			1313		
06 Oct	0912	0944	1009	C1.9	SF	S13E34			
06 Oct	1350	1353	1357		SF	N09W75	1305		
06 Oct	1624	1626	1628		SF	N10W77	1305		
06 Oct	1722	1727	1731		SF	N11W78	1305		
06 Oct	2119	2123	2125	B8.5					
06 Oct	2206	2210	2213	C1.2	SF	N10W82	1305		
06 Oct	2312	2317	2319	B8.9					
06 Oct	2331	2337	2339	B8.7	SF	N11W80	1305		
07 Oct	0042	0047	0049	C1.0	1F	N11W85	1305		
07 Oct	0114	0121	0130	C1.2	SF	S15E55	1313		
07 Oct	0355	0403	0410	C2.5					
07 Oct	0448	0450	0452		SF	N10W88	1305		
07 Oct	0516	0636	0652	B8.3					
07 Oct	0824	0832	0848	B9.1					
07 Oct	0925	0926	0930		SF	N12W78	1305		
07 Oct	1853	1857	1901	C2.6					
07 Oct	1953	1956	2000	B6.7					
08 Oct	0413	0420	0446	C1.1			1309		



Flare List

					Optical V ray Imp/ Location Pan						
	-	Time		X-ray	Imp/	Location	Rgn				
Date	Begin	Max	End	Class	Brtns	Lat CMD	#				
08 Oct	0743	0819	0836	B9.8			1313				
08 Oct	0913	0917	0924	B7.0			1313				
09 Oct	0645	0651	0658	B7.5			1314				
09 Oct	0746	0750	0817	B6.1			1314				
09 Oct	1322	1327	1333	C1.7			1314				
09 Oct	1944	1950	1953	B6.0							



### Region Summary

	Location	on	Su	nspot C	haracte	ristics				]	Flares				
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			O	ptica	.1	
Date	Lat CMD	Lon 10	0 <sup>-6</sup> hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regio	n 1302												
22 Sep	N11E74	282	480	11	Eki	2	BG	1	1	1		1	1		
23 Sep	N13E59	283	840	15	Ekc	10	BG	2	1		6	1			
24 Sep	N12E47	282	1300	17	Fkc	12	BGD	1	5	1	3	1	1		
25 Sep	N12E36	279	980	16	Ekc	18	BGD	2	5		9	2	2		
26 Sep	N13E23	279	950	15	Ekc	25	BG	7	2		15	1	1		
27 Sep	N13E08	280	980	18	Fkc	26	BGD	4			9				
28 Sep	N13W04	280	1070	18	Fkc	37	BGD	3	1		3	2			
29 Sep	N13W16	279	750	18	Fkc	23	BGD	1			5				
30 Sep	N13W29	278	750	17	Fkc	25	BGD	2			4				
01 Oct	N16W41	277	700	16	Fkc	16	BGD	2			4				
02 Oct	N16W55	278	410	16	Fkc	14	BGD	4	1		10	1			
03 Oct	N13W69	280	320	19	Fko	10	В	2			3		1		
04 Oct	N13W83	281	240	8	Dso	7	В	1			1				
								32	17	2	72	9	6	0	0

Crossed West Limb. Absolute heliographic longitude: 280

		Regio	n 1305												
25 Sep	N12E70	246	60	2	Hsx	1	A				1				
26 Sep	N13E58	244	80	9	Cso	2	В								
27 Sep	N12E41	247	80	2	Hsx	1	A								
28 Sep	N12E28	248	60	2	Hsx	5	A				1				
29 Sep	N13E16	247	100	5	Cso	8	BG	1			2				
30 Sep	N12E01	248	130	5	Dso	9	BG	1	1		2	1			
01 Oct	N12W12	248	170	6	Dso	14	BG	1	1		1	1			
02 Oct	N12W26	249	190	6	Dsi	9	BG	1	1		1	2			
03 Oct	N11W36	247	250	9	Chi	7	В								
04 Oct	N11W50	248	250	9	Chi	7	В								
05 Oct	N10W66	250	250	3	Cho	1	В								
06 Oct	N12W80	250	220	3	Cso	3	В	1			5				
07 Oct	N11W91	248	180	3	Hsx	1	A	1			2	1			
								6	3	0	15	5	0	0	0

Crossed West Limb. Absolute heliographic longitude: 248



# Region Summary - continued

	Location	on	Su	nspot C	haracte	ristics				]	Flares	S			
		Helio	-	Extent			Mag	X	K-ray				ptica	ıl	
Date	Lat CMD	Lon	10 <sup>-6</sup> hemi.	(helio)	Class	Count	Class	С	M	X	S	1	2	3	4
		ъ.	1206												
		_	on 1306												
26 Sep	N13E74	250	plage												
27 Sep	N13E59	230	20	1	Hsx	1	Α								
28 Sep	N13E46	230	60	1	Hsx	1	Α								
29 Sep	N14E34	229	30	1	Hsx	1	Α								
30 Sep	N13E20	229	40	1	Hsx	1	Α								
01 Oct	N14E07	229	20	1	Hsx	1	Α								
02 Oct	N15W06	229	20	1	Hsx	1	Α								
03 Oct	N14W20	230	30	1	Hsx	1	Α								
04 Oct	N14W34	232	30	1	Hsx	1	Α								
05 Oct	N14W47	230	10	1	Hrx	1	A								
06 Oct	N14W59	229	10	4	Cro	3	В								
07 Oct	N15W73	230	10	6	Axx	3	Α								
08 Oct	N15W87	232	plage												
		_						0	0	0	0	0	0	0	0
	West Lim		. 1 0	20											
Absolut	e heliograp	ohic lor	igitude: 2	29											
		Rogi	on 1307												
20.0	> 1 1 1 T T T	O			_	•	_								
28 Sep	N14E75	201	10	4	Bxo	2	В								
29 Sep	N16E65	198	10	11	Bxo	4	В								
30 Sep	N14E48	201	30	10	Cso	3	В	1							
01 Oct	N14E37	199	30	10	Dro	4	В				1				
02 Oct	N15E22	200	30	12	Ero	5	В								
03 Oct	N13E05	205	15	1	Hrx	1	A								
04 Oct	N15W01	198	10	7	Bxo	4	В								
05 Oct	N17W11	194	10	4	Bxo	3	В								
06 Oct	N17W25	196	plage												
07 Oct	N17W39	197	plage												
08 Oct	N17W53	198	plage												
09 Oct	N17W67	199	plage					_					•		
C4:11 a.s.	D' 1							1	0	0	1	0	0	0	0

Still on Disk. Absolute heliographic longitude: 198



# Region Summary - continued

	Location	on	Su	ınspot C	haracte	eristics				]	Flares	5			
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			O	ptica	.1	
Date	Lat CMD	Lon	10 <sup>-6</sup> hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regio	on 1308												
01 Oct	S25E55	181	30	1	Hsx	1	A								
02 Oct	S25E43	180	30	1	Hrx	1	A								
03 Oct	S25E29	182	plage												
04 Oct	S25E15	183	plage												
05 Oct	S25E01	184	plage												
06 Oct	S25W13	184	plage												
07 Oct	S25W27	185	plage												
08 Oct	S25W41	186	plage												
09 Oct	S25W55	187	plage												
			r G -					0	0	0	0	0	0	0	0
Still on	Dick														
	te heliograp	hic lon	gitude: 1	84											
1100014	ie nenograp	71110 1011	grade. 1	01											
		Regio	on 1309												
02 Oct	N23E67	156	80	4	Dso	2	В								
03 Oct	N24E55	155	160	4	Dao	3	В								
04 Oct	N24E42	156	160	4	Dao	6	В								
05 Oct	N24E28	156	160	3	Dso	3	В								
06 Oct	N22E14	156	170	3	Cso	5	В								
07 Oct	N23E02	156	80	3	Dso	4	В								
08 Oct	N22W11	155	70	4	Dso	3	В	1							
09 Oct	N23W24	155	70	1	Hsx	1	A	_							
0) 000	1123 1121	155	70	-	11571	•	7.1	1	0	0	0	0	0	0	0
Still on	Disk							_							
	te heliograp	hic lon	gitude: 1	56											
			8												
		Regio	on 1310												
03 Oct	S33E16	194	10	2	Bxo	3	В								
04 Oct	S33E02	195	45	6	Dao	8	В								
05 Oct	S32W10	194	30	8	Dro	3	В								
06 Oct	S33W23	194	30	10	Cro	4	В								
07 Oct	S34W38	196	10	2	Hrx	1	A								
08 Oct	S34W51	196	10	1	Axx	1	A								
09 Oct	S33W66	197	10	1	Axx	1	A								
07 000	555 11 00	171	10		1111	1	11	0	0	0	0	0	0	0	0
0.11	D: 1							Ü	O	J	J	9	0	0	J

Still on Disk. Absolute heliographic longitude: 195



# Region Summary - continued

Date  04 Oct 05 Oct	S12E20 S11E07	Regi	10 <sup>-6</sup> hemi.	Extent (helio)	_	_	Mag		K-ray			O	ptica		
04 Oct 05 Oct	S12E20 S11E07	Regi		(helio)	Class	Count		~						_	
05 Oct	S11E07	_	on 1311			Count	Class	<u>C</u>	M	X	S	1	2	3	4
05 Oct	S11E07	_	Region 1311												
05 Oct	S11E07	176	70	12	Dai	12	В								
	0101105	176	90	6	Dso	4	В								
06 Oct	S12W07	177	60	3	Cso	3	В								
07 Oct	S11W22	179	50	4	Cso	2	В								
08 Oct	S13W36	180	50	1	Hsx	1	A								
09 Oct	S11W50	180	40	1	Hsx	1	A								
								0	0	0	0	0	0	0	0
Still on 1	Disk.														
Absolute	e heliograp	hic lor	ngitude: 1	76											
		Regi	ion 1312												
04 Oct	N22E74	122	210	4	Hsx	1	A								
05 Oct	N23E60	123	210	2	Hsx	1	A								
06 Oct	N22E48	122	210	2	Hsx	1	A								
07 Oct	N22E35	123	320	3	Hhx	1	A								
08 Oct	N23E21	122	200	3	Hsx	1	A								
09 Oct	N23E10	121	210	3	Hsx	1	A								
								0	0	0	0	0	0	0	0
Still on 1	Disk.														
Absolute	e heliograp	hic lor	ngitude: 1	21											
		Regi	on 1313												
05 Oct	S13E65	118	90	5	Dai	4	В	4			4				
06 Oct	S15E52	118	180	8	Dai	10	В	1							
07 Oct	S16E39	118	140	6	Dsi	6	В	1			1				
08 Oct	S15E28	116	120	10	Dso	5	В	•			•				
09 Oct	S15E13	117	90	9	Dso	6	В								
0, 000	~					-		6	0	0	5	0	0	0	0
Still on 1	Disk														
	e heliograp	hic lor	ngitude: 1	17											
	Region 1314														
09 Oct	N26E72	58	180	6	Hsx	1	A	1							
								1	0	0	0	0	0	0	0
Still on 1				_											
Absolute	e heliograp	hic lor	igitude: 5	8											

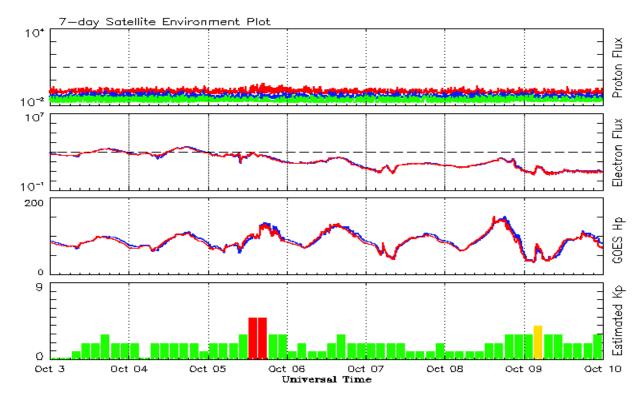


#### Recent Solar Indices (preliminary) Observed monthly mean values

			Sunspot Nu	mbers	Radio	Flux	Geomagnetic					
	Observed values Ratio		Smooth	Smooth values		Smooth	Planetary	Smooth				
Month	SEC	RI	RI/SEC	SEC	RI	10.7 cm	Value	Ap	Value			
2009												
October	7.0	4.8	0.66	11.3	7.1	72.3	74.1	3	4.1			
November	7.7	4.1	0.55	12.4	7.6	73.6	74.5	3	4.5			
December	15.7	10.8	0.68	13.6	8.3	76.8	74.9	2	4.8			
2010												
January	21.3	13.2	0.62	14.8	9.3	81.1	75.5	3	5.0			
February	31.0	18.8	0.60	16.7	10.6	84.7	76.5	5	5.1			
March	24.7	15.4	0.62	19.1	12.3	83.3	77.5	5	5.3			
April	11.2	8.0	0.71	21.4	14.0	75.9	78.3	10	5.5			
May	19.9	8.7	0.44	23.8	15.5	73.8	79.0	8	5.7			
June	17.9	13.6	0.75	25.2	16.4	72.6	79.7	7	5.8			
July	23.1	16.1	0.70	25.9	16.7	79.9	80.1	5	6.0			
August	28.2	19.6	0.70	27.3	17.4	79.7	80.7	8	6.2			
September		25.2	0.70	30.6	19.6	81.1	82.4	5	6.3			
0 . 1	25.0	22.5	0.67	25.0	22.2	01.6	05.0		<i>c</i> 1			
October	35.0	23.5	0.67	35.9	23.2	81.6	85.3	6	6.4			
November		21.5	0.60	40.5	26.5	82.5	87.7	5	6.4			
December	22.0	14.4	0.66	43.8	28.8	84.3	89.6	4	6.5			
				2	2011							
January	32.1	18.8	0.59	47.2	31.0	83.7	91.2	6	6.7			
February	53.2	29.6	0.55	50.6	33.4	94.5	92.7	6	6.8			
March	81.0	55.8	0.69	55.2	36.9	115.3	95.8	7	7.2			
April	81.7	54.4	0.67			112.6		9				
May	61.4	41.6	0.68			95.9		9				
June	55.5	37.0	0.67			95.8		8				
July	67.0	43.9	0.66			94.2		9				
August	66.1	50.6	0.77			101.7		8				
September		78.0	0.73			134.5		13				

**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 03 October 2011

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.

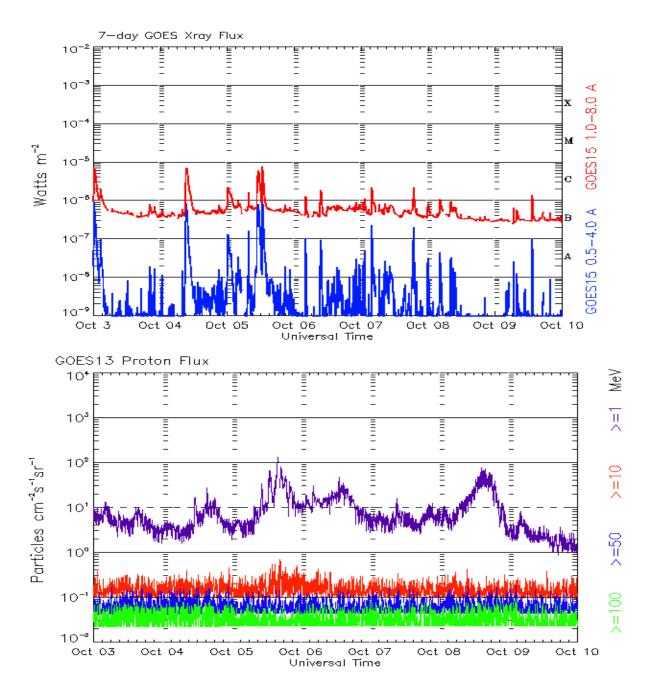
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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.

Kp plot contains the estimated planetary 3-hour K-index (derived by the Air Force Weather Agency) in real time from magnetometers at Meanook, Canada; Sitka, AK; Glenlea, Canada; St. Johns, Canada; Ottawa, Canada; Newport, WA; Fredericksburg, VA; Boulder, CO; Fresno, CA and Hartland, UK. These data are made available through cooperation from the Geological Survey of Canada (GSC), British Geological Survey (BGS) and the US Geological Survey. These may differ from the final Kp values derived from a more extensive network of magnetometers.

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 03 October 2011

The x-ray plots contains five-minute averages x-ray flux (Watt/ $m^2$ ) 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/cm $^2$ -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.



#### Preliminary Report and Forecast of Solar Geophysical Data (The Weekly)

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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

The Weekly has been published continuously since 1951 and is available online since 1997.

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