Solar activity was at low to moderate levels. Activity was low during 09 - 13 January. Moderate levels were reached on 14 January due to an M1 flare at 14/1318 UTC from new Region 1401 (N17, L = 218, class/area Dai/200 on 15 January). Activity returned to low levels on 15 January. There were no Earth-directed CMEs 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 during 09 - 12 January. Predominately normal levels were observed during 13 - 15 January.

Geomagnetic field activity was at mostly quiet levels during 09 - 12 January. Activity increased to quiet to unsettled levels on 13 January due to a coronal hole high-speed stream (CH HSS). Field activity decreased to quiet levels on 14 - 15 January.

Space Weather Outlook 18 January - 13 February 2012

Solar activity is expected to be at low levels with a chance for isolated M-class activity from Region 1401, 1402 (N27, L=215, class/area Dho/270 on 15 January) and old Region 1389 (S23, L=087), which is expected to return to the visible disk on 21 January.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal flux levels during 18 January - 03 February. Normal to moderate levels are expected from 04 - 07 February following a CH HSS. Normal levels are expected for the remainder of the period.

Geomagnetic field activity is expected to be quiet on 18 January. Conditions are expected to be at quiet to unsettled levels with a chance for isolated active periods on 19 - 20 January due to a CME observed early on 16 January. Mostly quiet conditions are expected to return from 21 January - 01 February. Quiet to unsettled conditions are expected from 02 - 04 February due to a recurrent CH HSS. Predominately quiet conditions are expected from 05 - 08 February. A second CH HSS is expected to become geoeffective on 09 February bringing quiet to unsettled conditions. Mostly quiet conditions are expected on 10 - 11 February before becoming quiet to unsettled for the duration of the period due to a third CH HSS.



Daily Solar Data

	Radio	Sun	Sunspot	X-ray					Fla	res				
	Flux	spot	Area	Background	_		X-ra	<u>y</u>			Ο	ptica	1	
Date	10.7cm	No.	(10 ⁻⁶ hemi.)	Flux		C	M	X		S	1	2	3	4
09 January	142	90	1180	B4.8		4	0	0		8	0	0	0	0
10 January	129	63	980	B4.0		2	0	0		2	0	0	0	0
11 January	120	64	920	B5.4		5	0	0		2	1	0	0	0
12 January	117	57	380	B5.1		3	0	0		1	0	0	0	0
13 January	124	81	285	B4.9		1	0	0		2	0	0	0	0
14 January	132	145	510	B5.9		5	1	0		1	0	0	0	0
15 January	134	141	665	B6.2		5	0	0		1	0	0	0	0

Daily Particle Data

	(pr	Proton Fluen otons/cm ² -da		_	Electron Fluer trons/cm ² -da					
Date	>1 MeV	>10 MeV	>100 MeV	>0.6 MeV	>2MeV	>4 MeV				
09 January	1.9e+05	1.3e+04	3.1e+03		3.6e+06					
10 January	2.8e+05	1.3e+04	3.1e+03		5.1e+06					
11 January	1.5e+05	1.3e+04	3.1e+03		7.4e + 06					
12 January	6.8e + 05	1.3e+04	3.2e+03		1.3e+07					
13 January	4.3e+05	1.3e+04	3.2e+03		3.8e + 06					
14 January	2.8e+05	1.2e+04	3.1e+03		3.4e+06					
15 January	6.0e + 05	1.3e+04	3.3e+03		3.9e+06					

Daily Geomagnetic Data

		Middle Latitude		High Latitude	<u>Estimated</u>			
	I	Fredericksburg		College		Planetary		
Date	A	K-indices	A	K-indices	A	K-indices		
09 January	7	2-2-2-1-2-2-2	7	1-2-2-2-3-2-0	6	2-2-2-1-2-2		
10 January	5	1-1-1-2-2-2-1-1	4	0-0-1-2-2-2-1-1	4	0-1-0-2-2-1-1-1		
11 January	5	1-2-1-1-1-2-2-1	2	0-1-0-2-0-1-1-1	5	1-2-1-1-1-2-1		
12 January	5	2-1-0-2-2-2-1	3	1-1-0-2-2-0-2-0	5	2-1-0-2-1-1-2-2		
13 January	8	2-3-3-1-2-2-1-1	4	1-2-2-3-1-0-0-0	6	2-3-3-1-1-1-1		
14 January	3	1-1-0-1-2-2-1-0	2	0-0-2-2-0-0-0	3	1-1-1-0-1-1-0-0		
15 January	4	0-1-0-0-2-2-2	1	0-0-0-0-1-1-1	3	0-1-0-0-1-1-2-2		

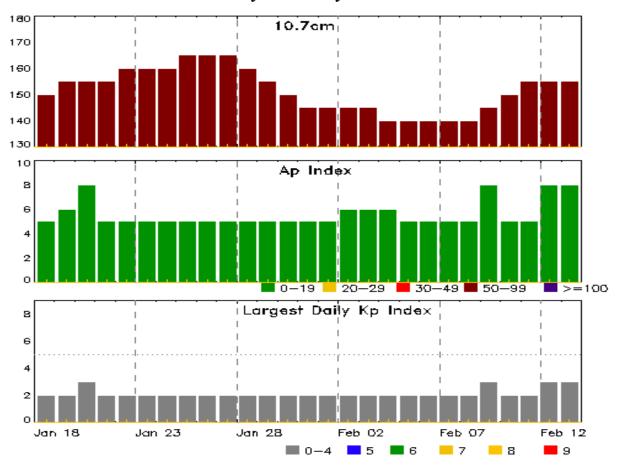


Alerts and Warnings Issued

Date & Time		Date & Time
of Issue UTC	Type of Alert or Warning	of Event UTC
No A	lerts or Warnings Issued	



Twenty-seven Day Outlook



	Radio Flux	Planetary	Largest		Radio Flux	Planetary	Largest
Date	10.7cm	A Index	Kp Index	Date	10.7cm	A Index	Kp Index
18 Jan	150	5	2	01 Feb	145	5	2
19	155	6	2	02	145	6	2
20	155	8	3	03	145	6	2
21	155	5	2	04	140	6	2
22	160	5	2	05	140	5	2
23	160	5	2	06	140	5	2
24	160	5	2	07	140	5	2
25	165	5	2	08	140	5	2
26	165	5	2	09	145	8	3
27	165	5	2	10	150	5	2
28	160	5	2	11	155	5	2
29	155	5	2	12	155	8	3
30	150	5	2	13	155	8	3
31	145	5	2				



Energetic Events

		Time		X	-ray	Opti	cal Informa	tion	P	eak	Sweep	Freq
			Half	Integ		Imp/	Location	Rgn	Radi	o Flux	Inter	nsity
Date	Begin	Max	Max	Class	Flux	Brtns	Lat CMD	#	245	2695	II	IV
14 Jan	1314	1318	1320	M1.4	0.003			1401				

Flare List

					(Optical	
		Time		X-ray	Imp/	Location	Rgn
Date	Begin	Max	End	Class	Brtns	Lat CMD	#
09 Jan	0002	0145	0253		SF	N17W45	1393
09 Jan	0255	0300	0316		SF	N16W45	1393
09 Jan	0323	0330	0351		SF	N16W45	1393
09 Jan	0352	0428	0459		SF	N46W16	1393
09 Jan	0500	0508	0527		SF	N16W47	1393
09 Jan	0606	0615	0624		SF	N15W48	1393
09 Jan	1031	1042	1047	C1.1			1393
09 Jan	1044	1044	1047		SF	N16W48	1393
09 Jan	1451	1456	1458	C1.4			1391
09 Jan	1715	1718	1721	C1.3			1391
09 Jan	2001	2013	2028	C2.6	SF	N16E50	1395
10 Jan	0149	0153	0156	C1.0	SF	N14W57	1393
10 Jan	0414	0418	0424	B7.1			1391
10 Jan	2234	2301	2312	C1.7	SF	N15W21	1391
11 Jan	0001	0011	0023	C2.2			1393
11 Jan	0140	0147	0155	C1.6			1395
11 Jan	0431	0446	0509	C3.7	1N	N17W71	1393
11 Jan	1104	1112	1119	C1.6	SF	N19E28	1395
11 Jan	1306	1311	1329	B7.6			1393
11 Jan	1448	1454	1509		SF	N10E56	
11 Jan	2045	2050	2054	C1.2			1393
12 Jan	0049	0058	0106	C1.5	SF	N19E19	1395
12 Jan	0212	0220	0228	B8.9			1393
12 Jan	0419	0423	0427	B9.0			1393
12 Jan	0754	1001	1216	C2.5			
12 Jan	1311	1323	1333	C3.3			1393
13 Jan	0601	0605	0608	C2.2	SF	N11W57	1391
13 Jan	0919	0923	0926	B8.2			
13 Jan	1654	1658	1720		SF	N24E24	1396
14 Jan	0319	0335	0403	C2.1	SF	N18E24	1396



Flare List

						(Optical		
		Time		X-ray		Imp/	Location	Rgn	
Date	Begin	Max	End	Class]	Brtns	Lat CMD	#	
14 Jan	1200	1209	1220	C4.1				1401	
14 Jan	1314	1318	1320	M1.4				1401	
14 Jan	1835	1840	1843	C2.8				1401	
14 Jan	2141	2154	2210	C2.1				1401	
14 Jan	2321	2325	2330	C1.1				1401	
15 Jan	0123	0130	0138	C1.5					
15 Jan	0206	0209	0213	C2.3				1391	
15 Jan	0248	0252	0259	C2.1				1401	
15 Jan	0720	0720	0723			SF	N17E73	1401	
15 Jan	1057	1101	1103	C1.0					
15 Jan	2356	2359	0005	C1.1					



Region Summary

	Locati	on	Su	ınspot C	haracte	ristics]	Flares	<u> </u>			
		Helio	Area	Extent			Mag	X	-ray				ptica	ıl	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.		•	-	•	C	M	X	S	1	2	3	4
			1200												
		Regio	on 1388												
27 Dec	S23E67	103	90	2	Hsx	1	A								
28 Dec	S24E55	102	100	2	Hsx	1	A								
29 Dec	S23E41	103	70	2	Hsx	1	A								
30 Dec	S23E29	102	60	3	Hsx	1	A								
31 Dec	S24E15	102	60	2	Hsx	1	A								
01 Jan	S24E02	102	80	2	Hsx	1	A								
02 Jan	S24W14	104	60	2	Hsx	1	A								
03 Jan	S23W24	101	60	5	Hsx	1	A								
04 Jan	S24W36	100	60	2	Cao	1	В								
05 Jan	S26W48	99	50	1	Hsx	1	A								
06 Jan	S26W61	99	60	2	Hsx	1	A								
07 Jan	S24W73	98	50	4	Cso	2	В								
08 Jan	S26W92	101	30	1	Hsx	1	A								
								0	0	0	0	0	0	0	0
	l West Lim														
Absolut	te heliograp	hic lon	gitude: 1	02											
		Regio	on 1389												
28 Dec	S20E70	86	200	5	Dso	6	В	5			2	1			
29 Dec	S23E58	86	290	15	Eki	8	В	10	2		11	1			
30 Dec	S23E44	87	500	12	Ekc	15	BG	7	1		4				
31 Dec	S23E31	87	400	13	Ekc	9	BG		2		2	1			
01 Jan	S22E17	86	420	16	Fko	16	В	1			2				
02 Jan	S22E08	83	330	16	Fkc	21	BG	2			2				
03 Jan	S22W04	81	240	14	Eso	20	В				1				
04 Jan	S22W16	81	280	16	Fko	14	В								
05 Jan	S23W29	80	200	3	Cao	5	В								
06 Jan	S21W45	83	230	11	Cao	3	В	1			1				
07 Jan	S21W61	86	210	2	Hsx	1	A								
08 Jan	S20W75	86	180	4	Hsx	1	A	3							
09 Jan	S19W88	87	210	2	Hsx	1	A								
								29	5	0	25	3	0	0	0

Crossed West Limb. Absolute heliographic longitude: 81



	Location	on	Su	nspot C	haracte	ristics]	Flares	,			
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			О	ptica	ıl	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regi	on 1390												
28 Dec	N09E44	113	10	2	Bxo	3	В								
29 Dec	N08E29	115	10	5	Cao	6	В								
30 Dec	N09E14	116	40	7	Cso	8	В								
31 Dec	N09W00	117	10	10	Bxo	4	В								
01 Jan	N09W14	119	plage												
02 Jan	N10W29	120	10	5	Bxo	9	В								
03 Jan	N10W42	120	30	6	Dro	9	В				1				
04 Jan	N10W58	122	70	9	Cai	16	В								
05 Jan	N09W71	122	170	9	Dao	12	В	1							
06 Jan	N08W84	122	210	10	Dao	8	В	1			1				
								2	0	0	2	0	0	0	0
	l West Lim														
Absolut	te heliograp	hic lon	igitude: 1	17											
		Regio	on 1391												
02 Jan	N13E81	10	120	9	Hsx	1	A								
03 Jan	N12E65	12	240	3	Hsx	1	A								
04 Jan	N12E54	10	510	8	Cho	4	В				1				
05 Jan	N13E40	11	420	9	Dho	10	В								
06 Jan	N13E28	10	420	10	Dki	19	В								
07 Jan	N13E14	10	370	9	Dko	12	В								
08 Jan	N13W00	10	300	10	Dko	12	В								

Crossed West Limb.

N12W12

N12W25

N12W37

N12W51

N12W67

N12W80

09 Jan

10 Jan

11 Jan

12 Jan

13 Jan

14 Jan

Absolute heliographic longitude: 10

280

270

270

180

120

120

10

10

12

9

6

5

Dsc

Dki

Ekc

Cao

Dao

Dao

22

22

20

11

11

9

BG

В

В

В

В

В

2

1

1

1

1

0

3 0

11

11

10

11

14

13



0 0 0

	Location	on_	Su	nspot C	haracte	ristics					Flares	<u> </u>			
		Helio	-	Extent			Mag	X	K-ray				ptica	ıl	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regi	on 1392												
03 Jan	N20E09	68	10	4	Bxo	3	В								
04 Jan	N20W04	69	10	6	Bxo	5	В	1							
05 Jan	N21W19	70	10	3	Bxo	2	В	1							
06 Jan	N19W32	70	40	6	Dao	8	В	2			2				
07 Jan	N19W46	71	50	7	Dao	5	В								
08 Jan	N19W58	69	20	3	Cso	2	В								
09 Jan	N18W68	66	10	1	Axx	1	A								
10 Jan	N18W82	68	plage												
								4	0	0	2	0	0	0	0
	l West Lim te heliograp		igitude: 6	9											
		Regi	on 1393												
05 Jan	N18W03	54	40	6	Dao	9	В								
06 Jan	N17W16	54	30	4	Cro	7	В				1				
07 Jan	N16W30	54	100	5	Dao	10	В				2				
08 Jan	N16W45	56	250	8	Dki	13	В	2			4				
09 Jan	N15W57	56	520	11	Eki	15	BG	1			7				
10 Jan	N17W70	56	530	12	Eki	8	BG	1			1				
11 Jan	N16W84	57	560	13	Eko	10	В	3 7	0	0	15	1	0	0	0
	l West Lim							1	0	0	15	1	0	0	0
Absolu	te heliograp	ohic Ion	igitude: 5	4											
		Regi	on 1394												
06 Jan	N18E42	356	10	6	Axx	2	A								
07 Jan	N18E26	358	10	3	Bxo	2	В								
08 Jan	N18E12	358	plage												
09 Jan	N18W02	1	plage												
10 Jan	N18W16	2	plage												
11 Jan	N18W28	1	plage												
12 Jan	N18W42	2	plage												
13 Jan	N18W56	3	plage												
14 Jan	N18W70	3	plage												
15 Jan	N18W84	4	plage					0	0	0	0	0	0	0	0
Still on	Dielz							U	U	U	U	U	U	U	U

Still on Disk. Absolute heliographic longitude: 1



-	Location	on	Su	nspot C	haracte	eristics]	Flares	S			
		Helio	Area	Extent	Spot	Spot	Mag	Σ	K-ray			O	ptica	ıl	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regi	ion 1395												
08 Jan	N22E59	312	120	3	Hsx	1	A								
09 Jan	N22E48	311	160	2	Hsx	1	A	1			1				
10 Jan	N22E35	311	180	3	Cao	3	В								
11 Jan	N21E21	312	90	2	Hsx	4	A	2			1				
12 Jan	N21E07	313	70	1	Hsx	2	A	1			1				
13 Jan	N21W06	312	40	2	Hsx	2	A								
14 Jan	N21W18	311	20	2	Hsx	2	A								
15 Jan	N20W31	311	10	1	Hsx	2	A								
								4	0	0	3	0	0	0	0
Still on															
Absolu	te heliograp	hic lo	ngitude: 3	12											
		Dag	ion 1396												
		_													
12 Jan	N25E32	287	10	3	Bxo	2	В								
13 Jan	N26E18	288	70	5	Dai	10	В				1				
14 Jan	N27E06	287	110	7	Dao	15	В	1			1				
15 Jan	N25W07	287	80	4	Dao	10	В	1	0	0	2	0	0	0	0
Still on	Dick							1	0	0	2	0	0	0	0
	te heliograp	hic lo	ngitude: 2	87											
		Dage	ion 1207												
10.7	G20720	_	on 1397		_										
13 Jan	S20E28	277	40	3	Dao	4	_								
14 Jan	S20E14	278	30	5	Dao	4	В								
15 Jan	S20E02	278	15	5	Cao	3	В	0	0	0	0	0	0	0	0
Still on	Disk							U	U	U	U	U	U	U	U
	te heliograp	hic lor	ngitude: 2	78											
		Regi	ion 1398												
12 Ion	N13W08	_		2	Das	1	ъ								
13 Jan		314	15 50	3	Dao	4	В								
14 Jan	N14W22	315	50 50	6	Dao	13	В								
15 Jan	N12W36	315	50	6	Dao	9	В	0	0	0	0	0	0	0	0
Still on	Disk							U	U	U	U	U	U	U	U
~	~														

Still on Disk. Absolute heliographic longitude: 314



	Location Sunspot Characteristics								Flares							
		Area Extent				Mag	X-ray			Optical						
Date	Lat CMD	Lon 10			_	_	•	C	M	X	S	1	2	3	4	
		Region	1399													
14 Jan	S24E69	224	30	3	Cao	4	В									
15 Jan	S23E54	225	20	1	Hax	2	A									
C4:11 on	Diale							0	0	0	0	0	0	0	0	
Still on Absolut	te heliograp	hic longi	tude: 2	25												
		Region	1400													
14 Jan	S14W04	297	10	3	Cro	3	В									
15 Jan	S13W17	296	10	2	Cso	2	В									
								0	0	0	0	0	0	0	0	
Still on Absolut	Disk. te heliograp	hic longi	tude: 2	97												
		Region	1401													
14 Jan	N15E73	215	40	2	Hsx	2	A	4	1							
15 Jan	N17E60	218	200	7	Dai	14	В	1			1					
								5	1	0	1	0	0	0	0	
Still on Absolut	Disk. te heliograp	hic longi	tude: 2	18												
1100010	.••			10												
		Region	1402													
14 Jan	N26E75	212	100	3	Hsx	3	A									
15 Jan	N27E64	215	270	6	Dho	7	В	0	0	0	0	0	0	0	0	
Still on Absolut	Disk. te heliograp	hic longi	tude: 2	15				U	U	U	U	U	U	U	U	
		Region	1403													
15 Jan	S19E29	250	10	2	Bxo	2	В	0	0	0	0	0	0	0	0	
Still on	Disk.			~0				0	U	0	0	U	O	0	0	



Absolute heliographic longitude: 250

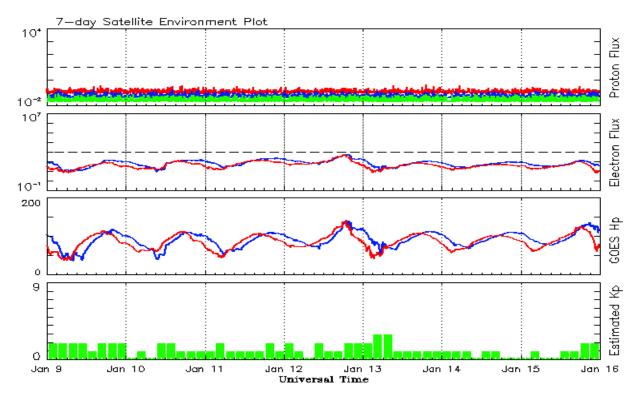


Recent Solar Indices (preliminary) Observed monthly mean values

		Ş	Sunspot Nu	mbers		Radio	Flux	Geomagnetic		
	Observed values		Ratio	Smooth values		Penticton	Smooth	Planetary	Smooth	
Month	SEC	RI	RI/SEC	SEC	RI	10.7 cm	Value	Ap	Value	
				,	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	35.6	25.2	0.71	30.6	19.6	81.1	82.4	5	6.3	
October	35.0	23.5	0.67	35.9	23.2	81.6	85.3	6	6.4	
November	36.1	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	
				,	2011					
January	32.1	18.8	0.59	47.2	30.9	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	61.5	41.8	112.6	100.4	9	7.5	
May	61.4	41.5	0.68	69.0	47.6	95.9	105.6	9	7.5	
June	55.5	37.0	0.67	76.5	53.2	95.8	110.9	8	7.4	
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		
October	116.8	88.0	0.75			137.2		7		
November	133.1	96.7	0.73			153.1		3		
December	106.3	73.0	0.69			141.2		3		

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 09 January 2012

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.

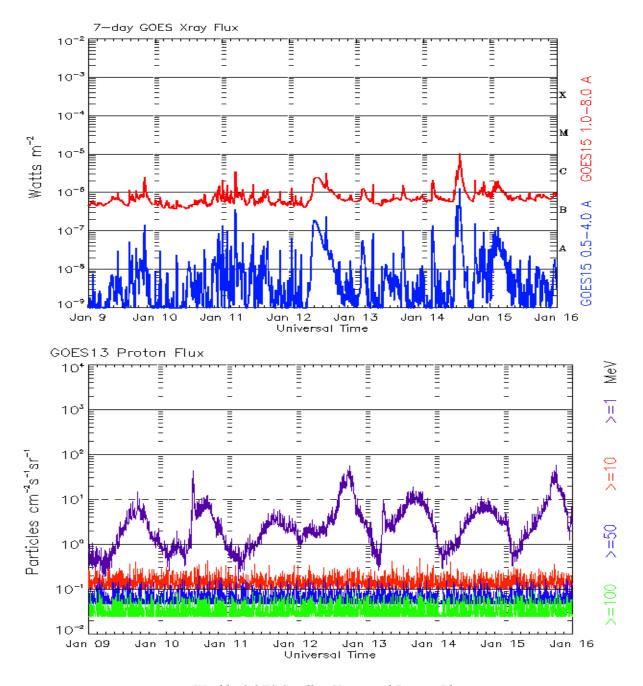
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 09 January 2012

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

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http://spaceweather.gov/SolarCycle/ -- Solar Cycle Progression web site

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