Solar activity was at low levels during 03 - 04 January. A C1/Sf flare occurred at 03/2335 UTC from Region 1142 (S13, L=208, class/area Dsi/120 on 03 January), and a C1 flare occurred at 04/0325 UTC from Region 1141 (N35, L=267, class/area Eao/060 on 04 January). Activity decreased to very low levels for the remainder of the period. Region 1141 rotated around the west limb on 07 January.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal levels from 03 - 07 January. Fluxes increased to high levels from 08 - 09 January.

Geomagnetic field activity was at predominantly quiet levels from 03 - 06 January at 2100 UTC. Activity increased to unsettled to minor storm levels between 06/2100 – 07/0300 UTC. Activity decreased to mostly quiet to unsettled levels for the remainder of the period. The increase in activity was associated with a recurrent coronal hole high-speed stream (CH HSS). During this period of elevated activity, measurements by the ACE spacecraft indicated that the density reached 71 p/cc at 06/1927 UTC, Bt peaked at 16 nT at 06/2021 UTC, while Bz decreased to -16 nT at 06/2021 UTC. Solar wind velocities increased from around 400 km/s to a peak of 672 km/s at 08/1848 UTC. Solar wind speeds remained elevated at around 550 km/s for the remainder of the period.

Space Weather Outlook 12 January – 07 February 2011

Solar activity is expected to be at very low levels with a slight chance for low levels during 12 – 13 January, as Region 1040 (N34, L=189, class/area Hsx/210 on 04 January) rotates off the west limb. Activity is expected to decrease to very low levels for the remainder of the period.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at moderate to high levels on 12 January. Flux levels are expected to decrease to normal to moderate levels during 13 January - 03 February. High levels are expected from 04 – 07 February.

Geomagnetic field activity is expected to be at mostly quiet levels from 12 - 13 January. Quiet to unsettled levels are expected during 14 – 15 January as a CH HSS moves into a geoeffective position. Mostly quiet levels are expected during 16 - 19 January. Activity is expected to increase to quiet to unsettled levels during 20 – 21 January, due to another CH HSS. Activity is expected to decrease to quiet levels during 22 January - 02 February. Quiet to unsettled levels are expected from 03 – 05 February as another CH HSS moves into geoeffective position. Quiet conditions are expected to prevail for the remainder of the forecast period.



Daily Solar Data

	Radio	Sun	Sunspot	Sunspot X-ray			Flares							
	Flux	spot	Area	Background	X-ray Flux									
Date	10.7 cm	No.	(10 ⁻⁶ hemi.)	С	M	X	S	1	2	3	4		
03 January	92	51	320	A8.7	1	0	0	1	0	0	0	0		
04 January	91	54	360	B1.0	1	0	0	0	0	0	0	0		
05 January	88	50	250	A8.4	0	0	0	0	0	0	0	0		
06 January	87	28	230	A7.4	0	0	0	0	0	0	0	0		
07 January	86	52	170	A7.7	0	0	0	0	0	0	0	0		
08 January	85	52	180	A7.2	0	0	0	0	0	0	0	0		
09 January	83	50	150	A7.2	0	0	0	0	0	0	0	0		

Daily Particle Data

		ton Fluence		Electron Fluence
	(proto	ns/cm ² -day-sr))	(electrons/cm ² -day-sr)
Date	>1 MeV	>10 MeV	>100 MeV	>.6 MeV >2MeV >4 MeV
03 January	2.0e + 05	1.4e + 04	3.3e+03	8.6e+05
04 January	1.6e + 05	1.4e + 04	3.3e+03	8.4e + 05
05 January	2.3e+05	1.4e + 04	3.4e+03	8.9e+05
06 January	7.6e + 05	1.5e + 04	3.4e+03	9.7e+05
07 January	1.3e + 05	1.3e+04	3.2e+03	1.0e+06
08 January	4.4e + 05	1.4e + 04	3.2e+03	4.4e+07
09 January	6.0e+05	1.3e+04	3.3e+03	1.5e+08

Daily Geomagnetic Data

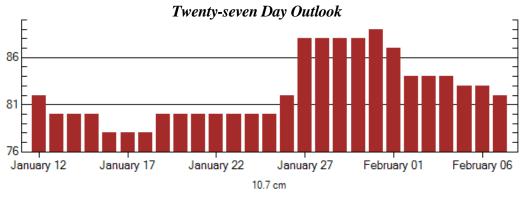
	Middle Latitude			High Latitude		Estimated
	F	redericksburg		College]	Planetary
Date	Α	K-indices	Α	K-indices	Α	K-indices
03 January	3	0-1-0-1-2-1-1-1	3	0-0-0-2-2-2-0-1	4	0-0-0-1-2-2-2
04 January	3	1-2-1-1-1-1-0	5	0-1-1-3-2-2-1-0	4	1-2-1-1-1-1-0
05 January	2	0-0-0-1-1-1-1-0	2	0-0-0-1-2-1-0-0	2	0-0-0-1-1-0-0-0
06 January	9	2-0-0-0-1-1-2-5	3	0-0-0-0-1-1-3	8	1-1-0-0-0-1-1-5
07 January	10	4-2-2-1-1-2-3	13	3-2-3-3-4-2-2-2	11	4-2-2-2-1-2-3
08 January	6	2-1-2-2-2-1-2	15	2-2-2-5-3-3-3-2	7	2-2-1-2-2-1-2
09 January	4	0-2-1-0-1-2-1-2	6	1-1-0-2-2-3-2-2	5	1-2-0-0-1-2-2-2

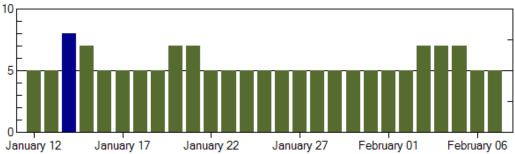


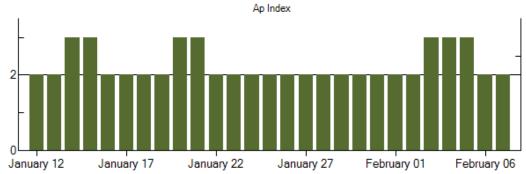
Alerts and Warnings Issued

Date & Time of Is	ssue Type of Alert or Warning	Date & Time of Event UTC
06 Jan 2208	WARNING: Geomagnetic $K = 4$	06 Jan 2210 - 07/1600
06 Jan 2245	ALERT: Geomagnetic $K = 4$	06 Jan 2245
06 Jan 2305	WARNING: Geomagnetic $K = 5$	06 Jan 2304 - 07/1600
08 Jan 1522	ALERT: Electron 2MeV Integral Flux >= 1000pfu	08 Jan 1505
09 Jan 0731	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	6 08 Jan 1505









ı	argest	Dail	lv Kn	Index

_	Radio Flux	•	_	_	Radio Flux	•	_
Date	10.7 cm	A Index	Kp Index	Date	10.7 cm	A Index	Kp Index
12 Jan	82	5	2	26 Jan	82	5	2
13	80	5	2	27	88	5	2
14	80	8	3	28	88	5	2
15	80	7	3	29	88	5	2
16	78	5	2	30	88	5	2
17	78	5	2	31	89	5	2
18	78	5	2	01 Feb	87	5	2
19	80	5	2	02	84	5	2
20	80	7	3	03	84	7	3
21	80	7	3	04	84	7	3
22	80	5	2	05	83	7	3
23	80	5	2	06	83	5	2
24	80	5	2	07	82	5	2
25	80	5	2				



Energetic Events

	Time	;	X-ray	Opt	ical Information	1	Peak	Sweep Freq
Date	1/2		Integ	Imp/	Location	Rgn	Radio Flux	Intensity
	Begin M	ax Max	Class Flux	Brtns	Lat CMD	#	245 2695	II IV

No Events Observed

Flare List

			Optical							
	Time		X-ray	Imp /	Location	Rgn				
				Brtns	Lat CMD					
		0446	B1.4							
1319	1325	1333	B2.6			1141				
1344	1353	1411	B4.2			1141				
1533	1541	1545	B3.3			1141				
2201	2222	2231	B3.6			1142				
2331	2331	A0001	C1.1	SF	S14E05	1142				
0222	0225	0227	B2.9			1141				
0319	0325	0327	C1.9			1141				
0557	0602	0605	B9.4			1141				
0756	0801	0808	B3.3			1141				
0935	0939	0941	B3.6							
0943	0947	0949	B6.4			1141				
1942	1945	1948	B1.9			1141				
2339	2345	2351	B4.2			1140				
2323	2327	2329	B4.0			1141				
2350	2358	0005	B1.8			1140				
No Fla	res Obser	rved								
0001	0006	0009	B1.2			1139				
0659	0705	0714	B1.7			1141				
1512	1520	1534	B5.1							
0918	0923	0927	B2.5			1139				
						1140				
•	1533 2201 2331 0222 0319 0557 0756 0935 0943 1942 2339 2323 2350 No Fla 0001 0659 1512	Begin Max 0436 0441 1319 1325 1344 1353 1533 1541 2201 2222 2331 2331 0222 0225 0319 0325 0557 0602 0756 0801 0935 0939 0943 0947 1942 1945 2339 2345 2323 2327 2350 2358 No Flares Obser 0001 0006 0659 0705 1512 1520 0918 0923	Begin Max End 0436 0441 0446 1319 1325 1333 1344 1353 1411 1533 1541 1545 2201 2222 2231 2331 2331 A0001 0222 0225 0227 0319 0325 0327 0557 0602 0605 0756 0801 0808 0935 0939 0941 0943 0947 0949 1942 1945 1948 2339 2345 2351 2323 2327 2329 2350 2358 0005 No Flares Observed 0001 0006 0009 0659 0705 0714 1512 1520 1534 0918 0923 0927	Begin Max End Class. 0436 0441 0446 B1.4 1319 1325 1333 B2.6 1344 1353 1411 B4.2 1533 1541 1545 B3.3 2201 2222 2231 B3.6 2331 2331 A0001 C1.1 0222 0225 0227 B2.9 0319 0325 0327 C1.9 0557 0602 0605 B9.4 0756 0801 0808 B3.3 0935 0939 0941 B3.6 0943 0947 0949 B6.4 1942 1945 1948 B1.9 2339 2345 2351 B4.2 2323 2327 2329 B4.0 2350 2358 0005 B1.8 No Flares Observed 0001 0006 0009 B1.2 0659 0705 0714	Begin Max End Class. Brtns 0436 0441 0446 B1.4 1319 1325 1333 B2.6 1344 1353 1411 B4.2 1533 1541 1545 B3.3 2201 2222 2231 B3.6 2331 2331 A0001 C1.1 SF 0222 0225 0227 B2.9 0319 0325 0327 C1.9 0557 0602 0605 B9.4 0756 0801 0808 B3.3 0935 0939 0941 B3.6 0943 0947 0949 B6.4 1942 1945 1948 B1.9 2339 2345 2351 B4.2 2323 2327 2329 B4.0 2350 2358 0005 B1.8 No Flares Observed 0001 0006 0009 B1.2 0659	Begin Max End Class. Brtns Lat CMD 0436 0441 0446 B1.4 1319 1325 1333 B2.6 1344 1353 1411 B4.2 1533 1541 1545 B3.3 2201 2222 2231 B3.6 2331 2331 A0001 C1.1 SF S14E05 0222 0225 0227 B2.9 0319 0325 0327 C1.9 0557 0602 0605 B9.4 0756 0801 0808 B3.3 0935 0939 0941 B3.6 0943 0947 0949 B6.4 1942 1945 1948 B1.9 2339 2345 2351 B4.2 2323 2327 2329 B4.0 2350 2358 0005 B1.8 No Flares Observed 0001 0006 0009 B1.2 0659 0705 0714 B1.7 1512 1520 1534 B5.1				



Region Summary

26 Dec N18E10 310 10 5 BXO 6 B 27 Dec N18E00 308 28 Dec N16W21 315 10 1 AXX 2 A 29 Dec N17W34 315 10 1 AXX 1 A 30 Dec N17W40 308 31 Dec N17W53 308 01 Jan N17W66 308 02 Jan N17W79 308 Crossed West Limb. Absolute heliographic longitude: 308 Region 1139 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E3 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239						gion su		<i>y</i>								
Date (° Lat ° CMD) Lon (10 6 hemi) (helio) Class Count Class C M X S 1 2 3 4 **Region 1137** 25 Dec N18E23 311 20 5 CRO 5 B 26 Dec N18E10 310 10 5 BXO 6 B 27 Dec N18E00 308 28 Dec N16W21 315 10 1 AXX 2 A 29 Dec N17W40 308 31 Dec N17W40 308 31 Dec N17W53 308 01 Jan N17W66 308 02 Jan N17W79 308 **Crossed West Limb.** Absolute heliographic longitude: 308 **Region 1139** 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 4 4 4 4 5 5 5 Jan S30W40 239 05 Jan S30W40 239 06 Jan S30W40 239 06 Jan S30W40 239 07 Jan S27W74 236 10 1 AXX 3 A 6 08 Jan S29W87 236 1 AXX 1 A 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																
Region 1137 25 Dec N18E23 311	D-4- (0)	I -4 0 CMD\				_	-	_						_		
25 Dec N18E23 311 20 5 CRO 5 B 26 Dec N18E10 310 10 5 BXO 6 B 27 Dec N18E00 308 28 Dec N16W21 315 10 1 AXX 2 A 29 Dec N17W34 315 10 1 AXX 1 A 30 Dec N17W40 308 31 Dec N17W53 308 01 Jan N17W66 308 02 Jan N17W79 308 Crossed West Limb. Absolute heliographic longitude: 308 Region 1139 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W10 239 04 Jan S30W23 239 05 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	Date (°	Lat " CIVID)	Lon	(10 nemi)	(neiio)	Class	Count	Class	C	M	X	3	I	2	3	4
26 Dec N18E10 310 10 5 BXO 6 B 27 Dec N18E00 308 28 Dec N16W21 315 10 1 AXX 2 A 29 Dec N17W34 315 10 1 AXX 1 A 30 Dec N17W40 308 31 Dec N17W53 308 01 Jan N17W66 308 02 Jan N17W79 308 Crossed West Limb. Absolute heliographic longitude: 308 Region 1139 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A		Re	gion 11	137												
27 Dec N18E00 308 28 Dec N16W21 315 10 1 AXX 2 A 29 Dec N17W34 315 10 1 AXX 1 A 30 Dec N17W40 308 31 Dec N17W53 308 01 Jan N17W66 308 02 Jan N17W79 308 Crossed West Limb. Absolute heliographic longitude: 308 Region 1139 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	25 Dec	N18E23	311	20	5	CRO	5	В								
28 Dec N16W21 315 10 1 AXX 2 A 29 Dec N17W34 315 10 1 AXX 1 A 30 Dec N17W40 308 31 Dec N17W53 308 01 Jan N17W66 308 02 Jan N17W79 308 Crossed West Limb. Absolute heliographic longitude: 308 Region 1139 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	26 Dec	N18E10	310	10	5	BXO	6	В								
29 Dec N17W34 315 10 1 AXX 1 A 30 Dec N17W40 308 31 Dec N17W53 308 01 Jan N17W66 308 02 Jan N17W79 308 Crossed West Limb. Absolute heliographic longitude: 308 Region 1139 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	27 Dec	N18E00	308													
30 Dec N17W40 308 31 Dec N17W53 308 01 Jan N17W66 308 02 Jan N17W79 308 Crossed West Limb. Absolute heliographic longitude: 308 Region 1139 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	28 Dec	N16W21	1 315	10	1	AXX	2	A								
31 Dec N17W53 308 01 Jan N17W66 308 02 Jan N17W79 308 Crossed West Limb. Absolute heliographic longitude: 308 Region 1139 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W23 239 05 Jan S30W49 239 06 Jan S30W49 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	29 Dec	N17W34	4 315	10	1	AXX	1	A								
01 Jan N17W66 308 02 Jan N17W79 308 Crossed West Limb. Absolute heliographic longitude: 308 Region 1139 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W49 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	30 Dec	N17W40	308													
02 Jan N17W79 308 Crossed West Limb. Absolute heliographic longitude: 308 Region 1139 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W49 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	31 Dec	N17W53	3 308													
Crossed West Limb. Absolute heliographic longitude: 308 **Region 1139** 29 Dec \$26E48 233 10 2 BXO 2 B 30 Dec \$26E33 235 AXX 1 A 31 Dec \$26E20 234 01 Jan \$30E03 239 1 AXX 1 A 02 Jan \$30W10 239 03 Jan \$30W23 239 04 Jan \$30W23 239 05 Jan \$30W49 239 06 Jan \$30W49 239 06 Jan \$30W62 239 07 Jan \$27W74 236 10 1 AXX 3 A 08 Jan \$29W87 236 1 AXX 1 A	01 Jan	N17W66	5 308													
Crossed West Limb. Absolute heliographic longitude: 308 **Region 1139** 29 Dec \$26E48 233	02 Jan	N17W79	308													
Absolute heliographic longitude: 308 **Region 1139** 29 Dec \$26E48 233									0	0	0	0	0	0	0	(
Region 1139 29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	Crossed	West Lin	nb.													
29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	Absolut	e heliogra	phic lo	ngitude: 30	8											
29 Dec S26E48 233 10 2 BXO 2 B 30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A		Re	gion 11	139												
30 Dec S26E33 235 AXX 1 A 31 Dec S26E20 234 01 Jan S30E03 239 1 AXX 1 A 02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	29 Dec		_		2	BXO	2	В								
31 Dec S26E20 234 01 Jan S30E03 239																
01 Jan S30E03 239																
02 Jan S30W10 239 03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A					1	AXX	1	A								
03 Jan S30W23 239 04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A																
04 Jan S30W36 239 05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A																
05 Jan S30W49 239 06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	04 Jan															
06 Jan S30W62 239 07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A	05 Jan															
07 Jan S27W74 236 10 1 AXX 3 A 08 Jan S29W87 236 1 AXX 1 A 0 0 0 0 0 0 0 0 0																
08 Jan S29W87 236 1 AXX 1 A 0 0 0 0 0 0 0 0				10	1	AXX	3	Α								
$0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0 \ 0$																
			- 20		-		-		0	0	0	0	0	0	0	ſ
	Crossed	West Lin	nb.						J	-	-	-	-	-	-	,



Absolute heliographic longitude: 239

Region Summary - continued

	Locatio		, Ac	Flares										
Helio		Area	Extent	Characte Spot	Spot	Mag		X-ray		Γl	Ont	ical		
Date	(° Lat ° CMD)	Lon	(10 ⁻⁶ hemi)	(helio)	Class	Count	Class	C	M :	x s	1		3	4
	$R\epsilon$	gion 11	140											
31 D		-	180	3	HSX	1	A							
01 Ja	n N32E52	190	200	4	HSX	1	A			1				
02 Ja	n N32E40	189	160	3	HSX	1	A							
03 Ja	n N32E25	190	180	2	HSX	1	A							
04 Ja	n N34E14	189	210	4	HSX	1	A							
05 Ja	n N34E01	188	190	6	CSO	3	В							
06 Ja	n N33W1	1 188	180	3	HSX	1	A							
07 Ja	n N33W2	4 187	140	2	CSO	3	В							
08 Ja	n N33W3	6 186	160	2	CSO	4	В							
09 Ja	n N32W4	9 185	130	2	HSX	1	A							
								0	0 0) 1	0	0	0	0
Still	on Disk.													
Abso	lute heliogra	aphic lo	ngitude: 18	8										
	_													
		gion 11		_		_	_							
01 Ja			100	7	DSO	6	В							
02 Ja			10	10	BXO	4	В							
03 Ja			20	11	BXO	7	В	_						
04 Ja			60	13	EAO	6	В	1						
05 Ja			20	12	BXO	3	В							
06 Ja	n N33W8	7 263						4	0 0		0	0	^	0
Cuasi	and Want I in	1.						1	0 0) ()	U	0	0	0
	sed West Lin		naituda. 26	7										
AUSO	lute heliogra	ipine io	ngnude. 20	/										
	Re	gion 11	142											
01 Ja	n S14E33	208	40	6	DSO	5	В							
02 Ja	n S12E21	207	90	8	DSO	3	В							
03 Ja	n S13E07	208	120	10	DSI	13	В	1		1				
04 Ja	n S12W05	5 208	90	8	DSI	17	В							
05 Ja	n S13W18	3 208	40	8	CAO	14	В							
06 Ja	n S14W32	2 208	50	8	CSO	7	В							
07 Ja	n S14W45	5 208		1	AXX	2	A							
08 Ja	n S15W56	5 205	10	2	BXO	3	В							
09 Ja	n S17W75	5 212	10	6	BXO	4	В							
0) 54				-		-	_							

Still on Disk.

Absolute heliographic longitude: 208



Region Summary - continued

Location Sunspot Characteristics Flares															
-		Helio	Area Extent Spot Spot				Mag	X-ray Optical				ical			
Date (°	Lat ° CMD)	Lon	(10 ⁻⁶ hemi)	(helio)	Class	Count	Class	С	M	X	S	1	2	3	4
	Re_{δ}	gion 11	43												
07 Jan	S22E16	147	20	4	DSO	4	В								
08 Jan	S23E02	146	10	6	BXO	4	В								
09 Jan	S23W11	146						0	0	0	0	0	0	0	0
Still on	Disk.														
Absolut	e heliogra	phic lo	ngitude: 140	5											
		•	C												
	Re_{δ}	gion 11	44												
09 Jan	S16W36	173		2	AXX	1	A								
								0	0	0	0	0	0	0	0
Still on	Disk.														
Absolut	e heliogra	phic lo	ngitude: 173	3											
		gion 11													
09 Jan	N15E39	97	10	4	BXO	4	В								
								0	0	0	0	0	0	0	0
Still on															
Absolut	e heliogra	phic lo	ngitude: 97												

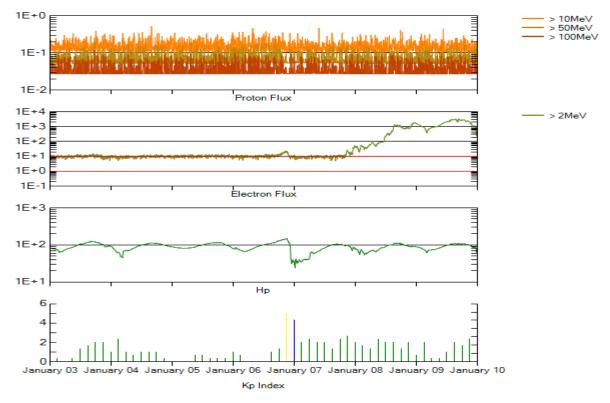


Recent Solar Indices (preliminary) Of the observed monthly mean values

	Sunspot Numbers Radio Flux Geomagnetic												
	Obsamiad	-			volvos				-				
M41-	Observed			Smooth		Penticton 10.7		Planetary					
Month	SEC	RI	RI/SEC	SEC	RI	10.7 cm	Value	Ap	Value				
	2.0	1.0	0.46		009	60.0	60. 7	4	4.7				
January	2.8	1.3	0.46	3.0	1.8	69.8	68.7	4	4.7				
February	2.5	1.4	0.56	3.1	1.9	70.0	68.8	5	4.7				
March	0.7	0.7	1.00	3.4	2.0	69.2	69.0	5	4.6				
A '1	1.0	0.0	1.00	2.7	2.2	<i>(</i> 0.7	co 2	4	4.2				
April	1.2	0.8	1.00	3.7	2.2	69.7	69.3	4	4.3				
May	3.9	2.9	0.74	3.8	2.3	70.5	69.7	4	4.1				
June	6.6	2.9	0.39	4.4	2.7	68.6	70.2	4	4.0				
July	5.0	3.2	0.70	5.8	3.6	68.2	71.0	4	3.9				
August	0.3	0.0	0.70	7.7	4.8	67.4	72.1	5	3.8				
_		4.3	0.64	9.9	6.2	70.5	73.3	4	3.8				
September	1 0.0	4.3	0.04	9.9	0.2	70.5	13.3	4	3.0				
October	7.0	4.8	0.66	11.3	7.1	72.3	74.1	3	4.1				
November		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				
					010								
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	0.71	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				
June	17.9	13.0	0.73	23.2	10.4	72.0	19.1	1	3.0				
July	23.1	16.1	0.70			79.9		5					
August	28.2	19.6	0.70			79.7		8					
September		25.2	0.71			81.1		5					
1													
October	35.0	23.5	0.67			81.6		6					
November	r 36.1	21.6	0.60			82.5		5					
December	22.0	14.5	0.66			84.3		3					

NOTE: Values are final except for the most recent 6 months which are considered preliminary. Cycle 23 started in May 1996 with an RI=8.0. Cycle 23 maximum was April 2000 with an RI=120.8. Solar minimum for cycle 23 was December 2008.





Weekly Geosynchronous Satellite Environment Summary Week Beginning 03 January 2011

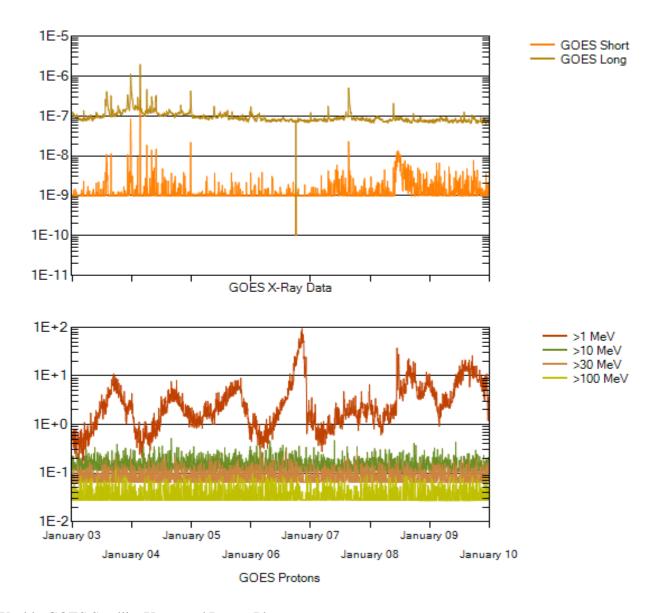
The proton flux plot contains the five-minute averaged integral proton flux (protons/cm²-sec -sr) as measured by GOES-13 (W75) for each of three energy thresholds: greater than 10, 50, and 100 MeV. The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV at GOES-13.

The Hp plot contains the five minute averaged Hp magnetic field component in nanoteslas (nT) as measured by GOES-13. 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 January 2011

The x-ray plot contains five-minute averaged x-ray flux (Watts/ m^2) as measured by GOES 14 (W105) 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 proton flux (protons/cm²-sec-sr) as measured by GOES-13 for each of the energy thresholds: >1, >10, >30 and >100 MeV. P10 event threshold is 10 pfu (protons/cm²-sec-sr) at greater than 10 MeV.

