

Space Weather Highlights
27 February - 04 March 2012

SWPC PRF 1905
06 March 2012

Solar activity ranged from very low to moderate levels. Activity was at very low to low levels during 27 February - 01 March with occasional B-class and isolated C-class flares. Activity increased to moderate levels on 02 March due to an M3/Sf flare at 02/1746 UTC from Region 1429 (N18, L=300, class/area Dkc/700 on 04 March). Activity decreased to low levels on 03 March with occasional low-level C-class flares from Region 1429. Activity returned to moderate levels on 04 March due to a long duration M2/1n flare at 04/1052 UTC from Region 1429. Region 1429 rotated into view on 03 March and quickly became recognized as a large, magnetically complex spot group with a reverse-polarity, beta-gamma-delta magnetic configuration.

No proton events were observed at geosynchronous orbit, however, the greater than 10 MeV proton flux was enhanced due to the long duration M2 flare observed on 04 March.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal to moderate levels during 27 February - 01 March. Flux levels increased to normal to high levels during 02 - 04 March.

Geomagnetic field activity was at quiet to minor storm levels during 27 - 28 February due to a CME passage associated with the filament eruption/asymmetric halo-CME observed on 24 February. Activity decreased to quiet levels on 29 February. Quiet to unsettled levels occurred during 01 - 04 March with active to minor storm periods observed at high latitudes due to weakly-enhanced solar wind speeds combined with sustained periods of weak southward IMF (Negative Bz).

Space Weather Outlook
07 March - 02 April 2012

Solar activity is expected to be at moderate to high levels from 07 - 16 March. Activity is expected to decrease to low levels during 17 - 28 March after Region 1429 rotates around the west limb. Probabilities for moderate to high activity will increase once again on 29 March with the return of Region 1429.

There is a chance for isolated proton events at geosynchronous orbit while Region 1429 remains on the disk through 16 March.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal to moderate levels from 07 - 17 March. Flux is expected to increase to moderate to high levels on 18 - 19 March due to effects from a recurrent coronal hole high speed stream (CH HSS). Normal to moderate levels are expected to return from 20 - 28 March followed by moderate to high levels on 30 March - 01 April due to a second recurrent CH HSS. Normal to moderate levels are expected for the remainder of the period.

Geomagnetic field activity is expected to be active with a chance for minor storm levels on 07 March due to the combined arrival of CMEs observed on 04 and 05 March. Activity is expected



to be at quiet to unsettled levels on 08 March as the effects from those CMEs subside. Mostly quiet conditions are expected during 09 - 10 March. Quiet to unsettled levels are expected on 11 - 13 March due to weak CH HSS effects. Activity is expected to decrease to quiet levels during 14 - 16 March. Activity is expected to increase to unsettled to active levels during 17 - 20 March due to a recurrent negative polarity CH HSS. Mostly quiet conditions are expected from 21 - 27 March followed by an increase to quiet to unsettled levels on 28 - 31 March due to another recurrent CH HSS. Predominantly quiet conditions are expected for the remainder of the period.

****Attention**** Beginning Monday March 12, 2012, the Weekly Bulletin will now be issued and available on the SWPC web page every Monday morning by 1500 UTC.



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
27 February	106	45	130	B2.0	0	0	0	1	0	0	0	0
28 February	103	35	130	B1.6	0	0	0	0	0	0	0	0
29 February	102	22	130	B1.5	0	0	0	3	0	0	0	0
01 March	103	24	110	B1.7	1	0	0	0	1	0	0	0
02 March	108	24	100	B3.0	0	1	0	1	0	0	0	0
03 March	116	52	430	B2.6	6	0	0	3	0	0	0	0
04 March	120	70	870	B4.5	4	1	0	14	1	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
	27 February	6.0e+07	4.9e+04	2.5e+03		5.1e+06
28 February	4.4e+06	1.4e+04	2.8e+03		2.0e+06	
29 February	1.1e+06	1.2e+04	3.0e+03		3.6e+06	
01 March	7.4e+05	1.2e+04	3.0e+03		4.0e+06	
02 March	2.9e+05	1.2e+04	3.2e+03		4.4e+07	
03 March	2.1e+05	1.3e+04	3.0e+03		7.0e+07	
04 March	4.7e+05	1.4e+04	3.0e+03		3.3e+07	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	27 February	12	4-3-1-2-3-2-3-2	27	2-1-1-3-6-5-5-3	16
28 February	11	1-2-5-2-2-2-1-2	10	1-1-5-2-1-2-1-1	10	1-1-4-2-1-2-1-2
29 February	6	3-3-2-0-1-1-1-1	2	1-1-1-0-0-0-1-0	6	2-2-2-0-0-1-1-1
01 March	12	0-3-3-3-3-2-3-3	26	0-3-3-6-5-4-3-2	14	1-3-3-3-3-2-4-4
02 March	10	3-3-3-1-3-2-2-1	17	3-2-4-3-5-3-2-1	10	3-3-3-1-3-2-2-2
03 March	8	2-3-2-2-2-2-1-2	21	2-3-5-5-3-4-1-1	8	2-3-3-2-1-2-1-2
04 March	10	4-2-3-2-2-2-2-1	25	3-4-3-6-4-3-3-2	12	4-3-3-2-2-2-3-2

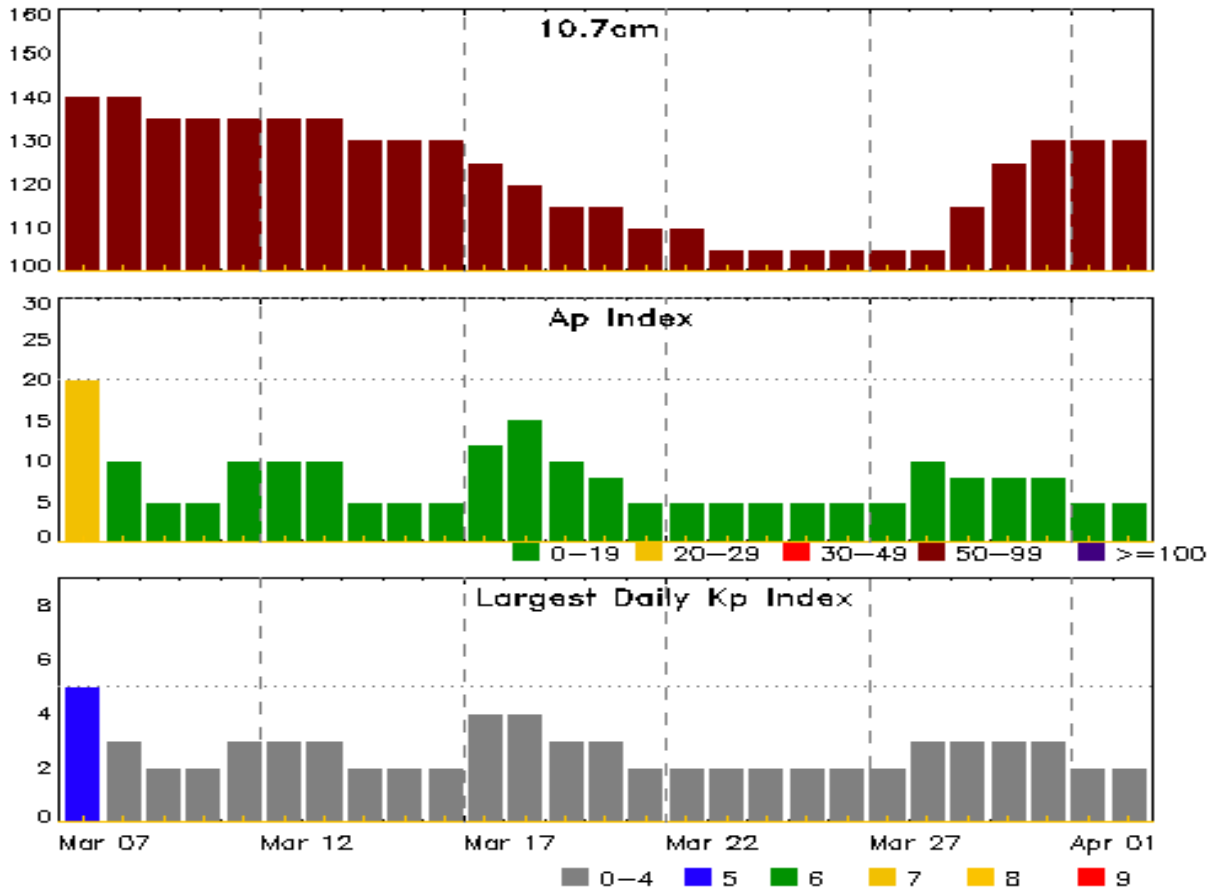


Alerts and Warnings Issued

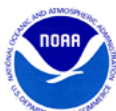
Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
27 Feb 0218	WARNING: Geomagnetic K = 4	27/0220 - 1500
27 Feb 0227	ALERT: Geomagnetic K = 4	27/0224
27 Feb 1419	EXTENDED WARNING: Geomagnetic K = 4	27/0220 - 2359
27 Feb 1939	WARNING: Geomagnetic K = 5	27/1940 - 2359
27 Feb 2102	ALERT: Geomagnetic K = 5	27/2100
27 Feb 2351	EXTENDED WARNING: Geomagnetic K = 4	27/0220 - 28/1200
28 Feb 0818	WARNING: Geomagnetic K = 5	28/0820 - 1200
01 Mar 0339	WARNING: Geomagnetic K = 4	01/0340 - 0900
01 Mar 1940	WARNING: Geomagnetic K = 4	01/1940 - 2359
01 Mar 1946	ALERT: Geomagnetic K = 4	01/1942
01 Mar 2330	EXTENDED WARNING: Geomagnetic K = 4	01/1940 - 02/0900
02 Mar 1447	ALERT: Electron 2MeV Integral Flux \geq 1000pfu	02/1425
03 Mar 1318	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	02/1425
03 Mar 2018	SUMMARY: 10cm Radio Burst	03/1828 - 1848
04 Mar 0235	WARNING: Geomagnetic K = 4	04/0240 - 0600
04 Mar 0240	ALERT: Geomagnetic K = 4	04/0237
04 Mar 0550	EXTENDED WARNING: Geomagnetic K = 4	04/0240 - 1200
04 Mar 1230	SUMMARY: 10cm Radio Burst	04/1126 - 1212
04 Mar 1302	ALERT: Type IV Radio Emission	04/1040
04 Mar 1601	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	02/1425



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
07 Mar	140	20	5	21 Mar	110	5	2
08	140	10	3	22	110	5	2
09	135	5	2	23	105	5	2
10	135	5	2	24	105	5	2
11	135	10	3	25	105	5	2
12	135	10	3	26	105	5	2
13	135	10	3	27	105	5	2
14	130	5	2	28	105	10	3
15	130	5	2	29	115	8	3
16	130	5	2	30	125	8	3
17	125	12	4	31	130	8	3
18	120	15	4	01 Apr	130	5	2
19	115	10	3	02	130	5	2
20	115	8	3				



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
02 Mar	1729	1746	1807	M3.3	0.049	SF	N16E83	1429	51			
04 Mar	1029	1052	1216	M2.0	0.092	1N	N19E61	1429	1400	2500		2

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
	Begin	Max	End				
27 Feb	1806	1813	1822	B9.9	SF	N08E42	
28 Feb	0006	0019	0032	B6.6			
28 Feb	0757	0807	0814	B6.7			
29 Feb	0733	0738	0741	B5.3	SF	N13E25	
29 Feb	1425	1428	1434	B2.4			1423
29 Feb	1520	1525	1555	B4.3			
29 Feb	2115	2122	2128	B8.6	SF	N13E17	1427
29 Feb	2234	2240	2251	B9.2	SF	N13E16	1427
01 Mar	0852	1010	1116	B5.5			1427
01 Mar	1510	1526	1536	C3.3	1F	N20W13	1423
02 Mar	0309	0313	0321	B4.1			
02 Mar	1729	1746	1807	M3.3	SF	N16E83	1429
02 Mar	2337	2343	2354	B7.7			
03 Mar	0056	0102	0127	C1.4			
03 Mar	0301	0308	0311	C1.3	SF	N14W17	1427
03 Mar	0404	0405	0408		SF	S17E63	
03 Mar	0515	0520	0525	C1.2			
03 Mar	0534	0609	0637	C2.8			1429
03 Mar	1512	1515	1517	B3.8			
03 Mar	1756	1803	1805	C1.1	SF	N17E73	1429
03 Mar	1813	1948	2046	C1.9			1429
04 Mar	0030	0034	0037	B7.0			
04 Mar	0140	0145	0148	C1.4			1429
04 Mar	0205	0210	0213	B7.2			1429
04 Mar	0328	0333	0338	C2.8			1429
04 Mar	0644	0651	0659	C1.3			1429
04 Mar	1029	1052	1216	M2.0	1N	N19E61	1429
04 Mar	1537	1537	1543		SF	N19E44	
04 Mar	1602	1603	1615		SF	N19E44	



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
04 Mar	1632	1634	1701		SF	N19E44	1429
04 Mar	1635	1638	1640		SF	N15E60	1429
04 Mar	1717	1718	1723		SF	N19E44	
04 Mar	1724	1731	1735	C3.2	SF	N14W39	1427
04 Mar	1949	1949	1952		SF	N16E58	1429
04 Mar	2029	2032	2042		SF	N18E41	1430
04 Mar	2106	2110	2112		SF	N16E57	1429
04 Mar	2128	2128	2132		SF	N16E57	1429
04 Mar	2155	2156	2201		SF	N15E55	1429
04 Mar	2310	2311	2327		SF	N17E56	1429
04 Mar	2344	2345	2350		SF	N16E56	1429
04 Mar	2346	2347	2354		SF	N18E39	1430



Region Summary

Date	Location		Sunspot Characteristics					Flares								
	Lat	CMD	Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
			Lon	10 ⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
Region 1421																
18 Feb	N17E59		133	10	1	Axx	2	A								
19 Feb	N18E46		133	10	1	Axx	2	A								
20 Feb	N18E32		133	30	2	Cro	2	B	1			2				
21 Feb	N14E19		133	20	5	Bxo	4	B								
22 Feb	N14E05		135	plage												
23 Feb	N14W06		133	0	1	Axx	1	A								
24 Feb	N14W20		134	plage												
25 Feb	N14W34		134	plage												
26 Feb	N14W48		135	plage					2			1				
27 Feb	N14W62		136	plage												
									3	0	0	3	0	0	0	0

Died on Disk.

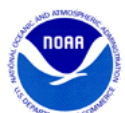
Absolute heliographic longitude: 135

Region 1422

19 Feb	N15E02		177	60	6	Dai	10	B	1			1				
20 Feb	N16W11		176	240	6	Dai	12	B	2			2				
21 Feb	N15W24		177	330	6	Dsi	15	B	1							
22 Feb	N15W38		177	240	5	Dsi	10	B								
23 Feb	N15W52		179	130	5	Cao	9	B								
24 Feb	N15W65		178	150	5	Cao	4	B								
25 Feb	N15W78		178	180	4	Cao	3	B								
26 Feb	N15W90		177	150	3	Cao	3	B								
									4	0	0	3	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 177



Region Summary - continued

Date	Location		Sunspot Characteristics					Flares							
	Lat	CMD	Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical			
			Lon	10 ⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3

Region 1426

26 Feb	N10E12	75	20	4	Dro	2	B										
27 Feb	N11W02	74	10	3	Bxo	2	B										
28 Feb	N11W15	75	10	3	Bxo	3	B										
29 Feb	N11W31	78	10	1	Axx	1	A										
01 Mar	N11W45	79	plage														
02 Mar	N11W59	80	plage														
03 Mar	N11W73	81	plage														
04 Mar	N11W87	82	plage														
									0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 74

Region 1427

29 Feb	N17E13	35	plage									2					
01 Mar	N15W01	35	20	2	Cro	3	B										
02 Mar	N15W16	37	20	2	Cro	3	B										
03 Mar	N15W31	38	20	2	Cro	3	B	1				1					
04 Mar	N15W45	39	10	2	Bxo	2	B	1				1					
								2	0	0		4	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 35

Region 1428

03 Mar	S17E51	316	40	5	Cro	4	B										
04 Mar	S17E37	318	70	6	Dso	6	B										
								0	0	0		0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 318

Region 1429

03 Mar	N18E68	299	290	6	Dkc	4	BG	3				1					
04 Mar	N18E55	300	700	8	Dkc	8	BGD	3	1			8	1				
								6	2	0		10	1	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 300

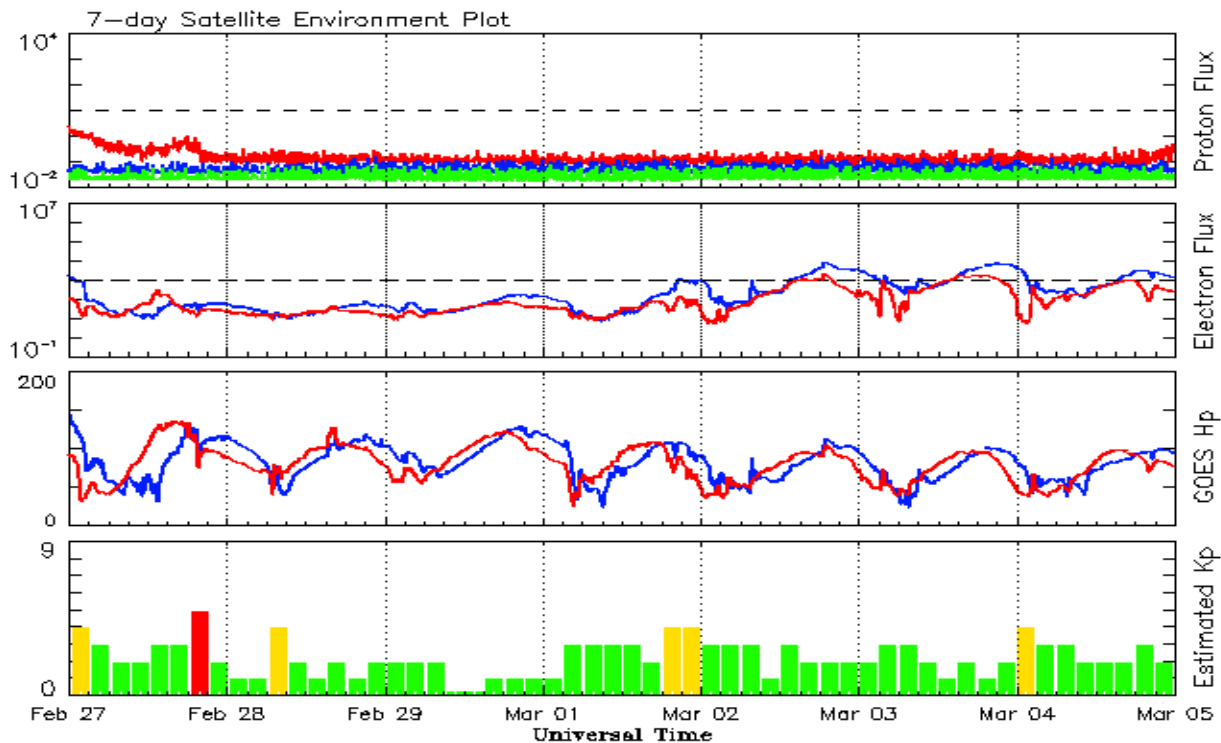


Recent Solar Indices (preliminary)
Observed monthly mean values

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
2010									
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	43.8	0.66	82.5	57.2	94.2	115.4	9	7.3
August	66.1	50.6	0.77	84.9		101.7	117.9	8	7.4
September	106.4	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	29.6	0.28		33.4	141.2		3	
2012									
January	91.3	58.3	0.64			133.1		6	
February	50.1					106.7		7	

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 27 February 2012*

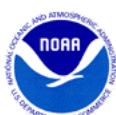
The proton flux plot contains the five-minute averaged integral proton flux (protons/cm²-sec -sr) as measured by the SWPC Primary GOES satellite, near West 75, for each of three energy thresholds: greater than 10, 50, and 100 MeV.

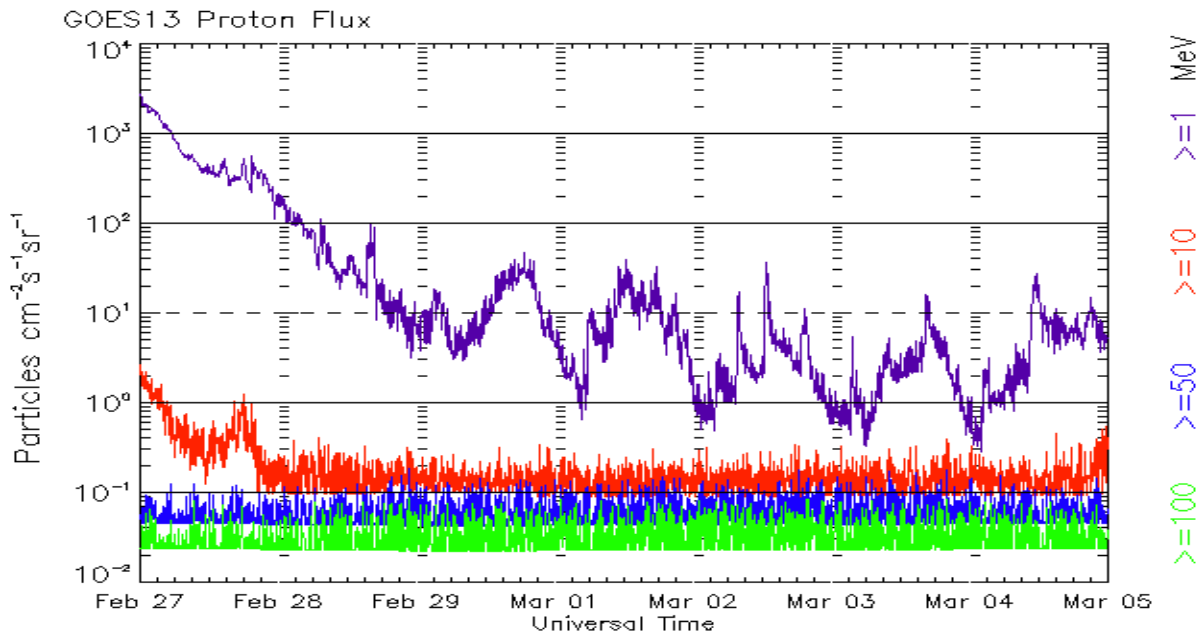
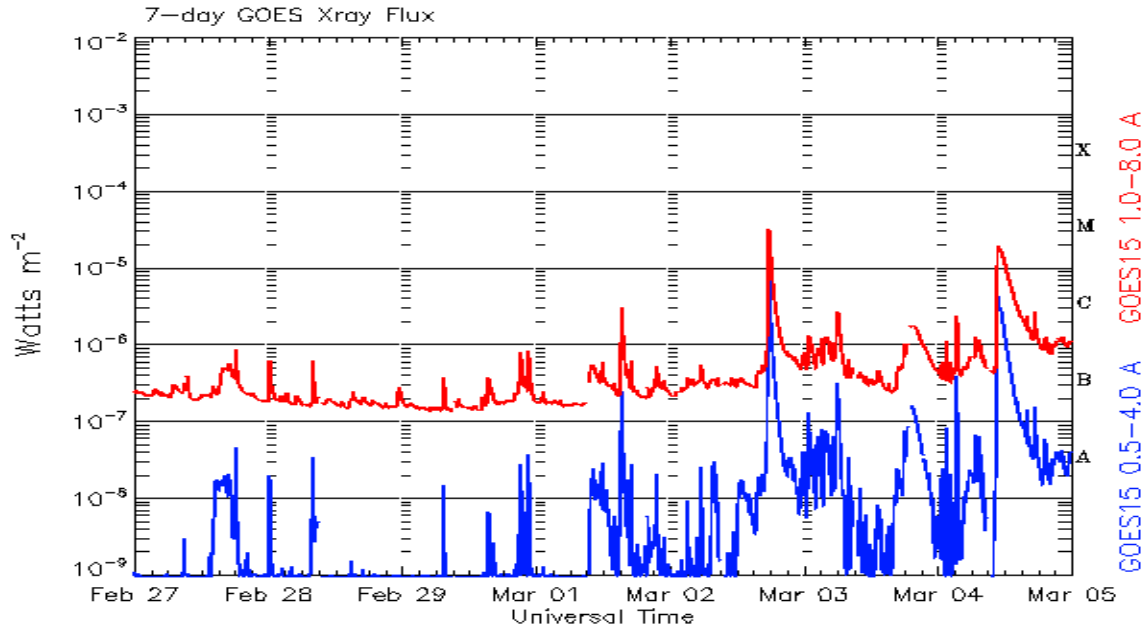
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 27 February 2012*

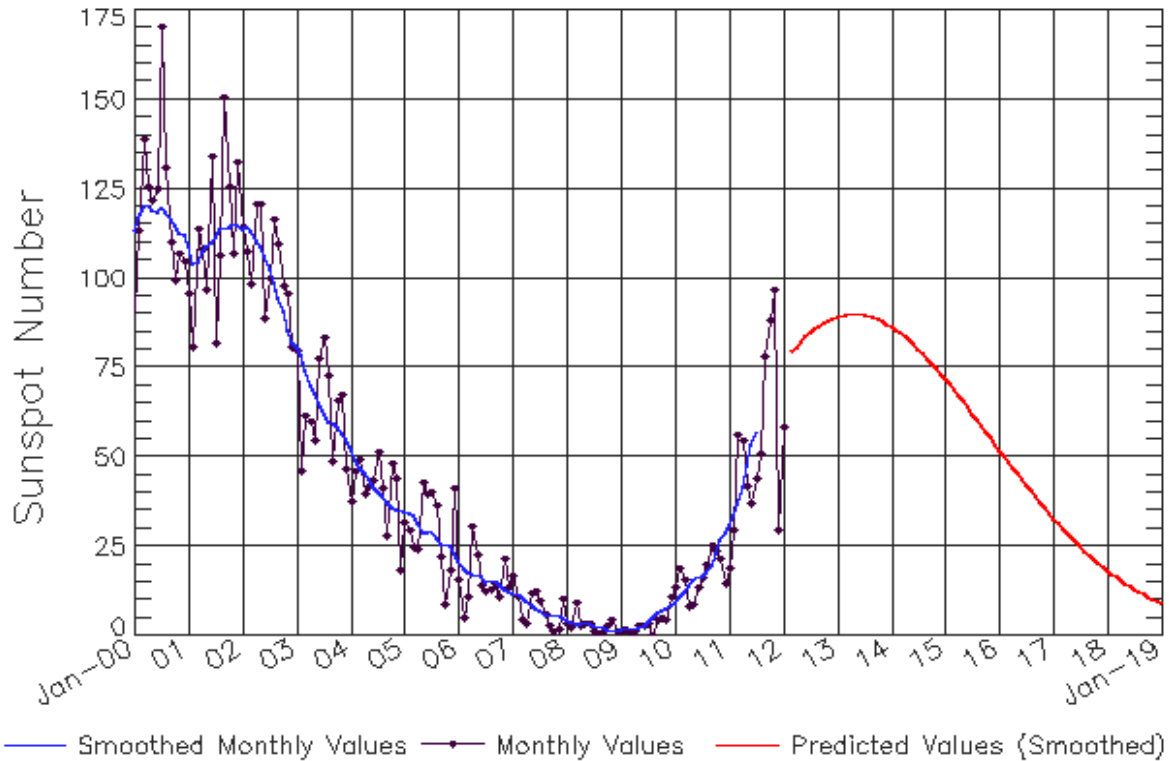
The x-ray plots contains five-minute averages x-ray flux (Watt/m²) as measure by the SWPC primary GOES X-ray satellite, usually at West 105 longitude, in two wavelength bands, 0.05 - 0.4 and 0.1 - 0.8 nm. The letters A, B, C, M and X refer to x-ray event levels for the 0.1 - 0.8 nm band.

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.



ISES Solar Cycle Sunspot Number Progression

Observed data through Feb 2012

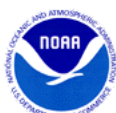


Updated 2012 Mar 6

NOAA/SWPC Boulder, CO USA

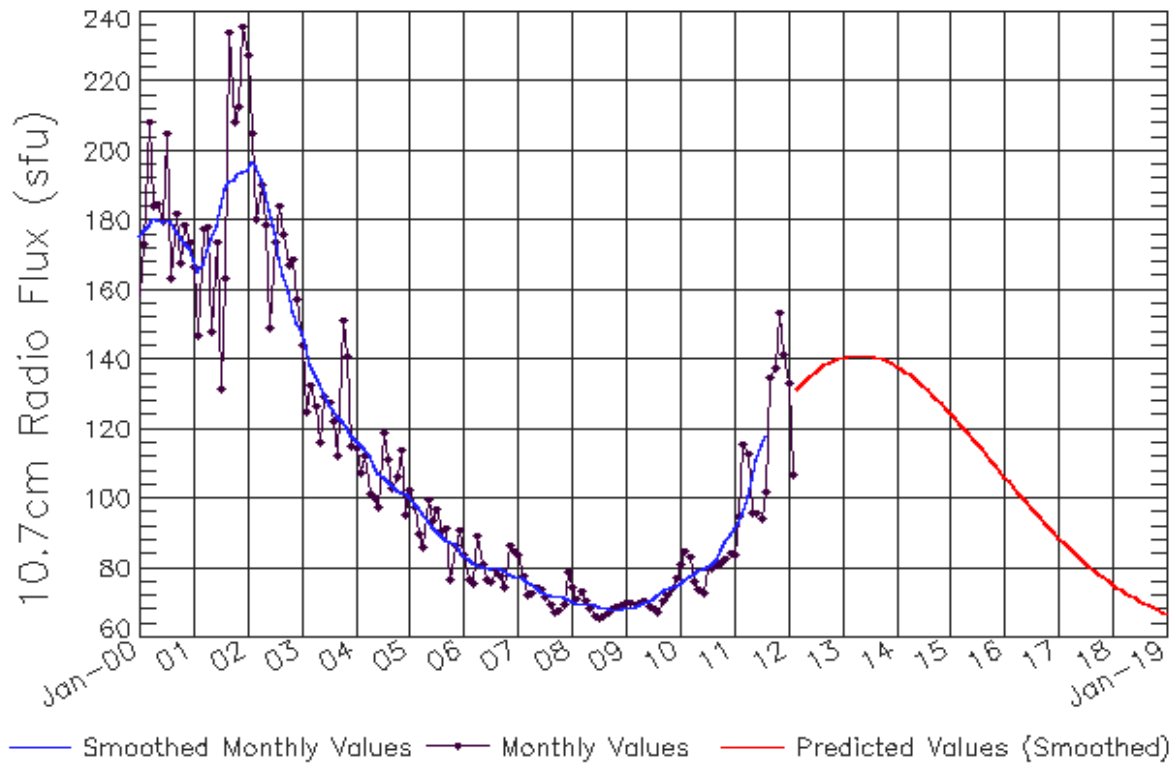
Smoothed Sunspot Number Prediction

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2010	9 (***)	11 (***)	12 (***)	14 (***)	16 (***)	16 (***)	17 (***)	17 (***)	20 (***)	23 (***)	27 (***)	29 (***)
2011	31 (***)	33 (***)	37 (***)	42 (***)	48 (***)	53 (***)	57 (***)	54 (1)	54 (2)	56 (3)	59 (5)	62 (5)
2012	66 (6)	69 (7)	71 (7)	71 (8)	71 (9)	73 (9)	77 (10)	86 (10)	87 (10)	88 (10)	88 (10)	89 (10)
2013	89 (10)	90 (10)	90 (10)	90 (10)	90 (10)	90 (10)	90 (10)	89 (10)	89 (10)	89 (10)	88 (10)	87 (10)
2014	86 (10)	86 (10)	85 (10)	84 (10)	83 (10)	81 (10)	80 (10)	79 (10)	78 (10)	76 (10)	75 (10)	73 (10)
2015	72 (10)	70 (10)	69 (10)	67 (10)	65 (10)	64 (10)	62 (10)	60 (10)	59 (10)	57 (10)	55 (10)	54 (10)
2016	52 (10)	50 (10)	49 (10)	47 (10)	45 (10)	44 (10)	42 (10)	40 (10)	39 (10)	37 (10)	36 (10)	34 (10)
2017	33 (10)	31 (10)	30 (10)	29 (10)	27 (10)	26 (10)	25 (10)	24 (10)	23 (10)	21 (10)	20 (10)	19 (10)
2018	18 (10)	17 (10)	16 (10)	15 (10)	15 (10)	14 (10)	13 (10)	12 (10)	12 (10)	11 (10)	10 (10)	10 (10)
2019	9 (10)	8 (10)	8 (10)	7 (10)	7 (10)	6 (10)	6 (10)	6 (10)	5 (10)	5 (10)	4 (10)	4 (10)



ISES Solar Cycle F10.7cm Radio Flux Progression

Observed data through Feb 2012



Updated 2012 Mar 6

NOAA/SWPC Boulder, CO USA

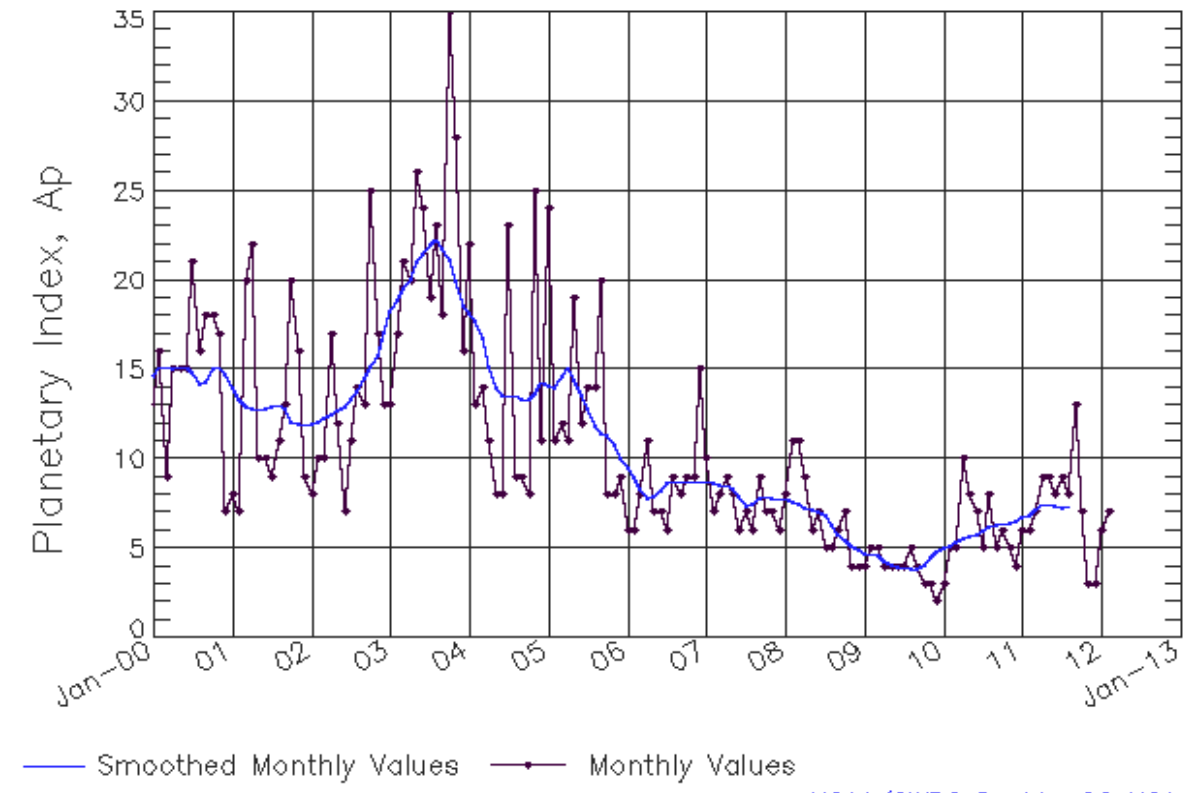
Smoothed F10.7cm Radio Flux Prediction

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2010	76 (**)	77 (**)	78 (**)	78 (**)	79 (**)	80 (**)	80 (**)	81 (**)	82 (**)	85 (**)	88 (**)	90 (**)
2011	91 (**)	93 (**)	96 (**)	100 (**)	106 (**)	111 (**)	115 (**)	118 (**)	119 (1)	121 (1)	123 (2)	126 (3)
2012	130 (4)	133 (4)	135 (5)	135 (6)	134 (7)	134 (8)	134 (8)	136 (9)	138 (9)	139 (9)	140 (9)	140 (9)
2013	141 (9)	141 (9)	141 (9)	141 (9)	141 (9)	141 (9)	141 (9)	141 (9)	140 (9)	140 (9)	139 (9)	139 (9)
2014	138 (9)	137 (9)	136 (9)	136 (9)	135 (9)	134 (9)	132 (9)	131 (9)	130 (9)	129 (9)	127 (9)	126 (9)
2015	125 (9)	123 (9)	122 (9)	120 (9)	119 (9)	117 (9)	116 (9)	114 (9)	113 (9)	111 (9)	110 (9)	108 (9)
2016	106 (9)	105 (9)	103 (9)	102 (9)	100 (9)	99 (9)	97 (9)	96 (9)	94 (9)	93 (9)	92 (9)	90 (9)
2017	89 (9)	88 (9)	86 (9)	85 (9)	84 (9)	83 (9)	82 (9)	80 (9)	79 (9)	78 (9)	77 (9)	76 (9)
2018	75 (9)	75 (9)	74 (9)	73 (9)	72 (9)	71 (9)	71 (9)	70 (9)	69 (9)	69 (9)	68 (9)	67 (9)
2019	67 (9)	66 (9)	66 (9)	65 (9)	65 (9)	65 (9)	64 (9)	64 (9)	63 (9)	63 (9)	63 (9)	63 (9)



ISES Solar Cycle Ap Progression

Observed data through Feb 2012



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Solar Cycle Comparison charts are temporarily unavailable.



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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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<http://spaceweather.gov/ftpmenu/> -- Some content as ascii text

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

<http://spaceweather.gov/contacts.html> -- Contact and Copyright information

http://spaceweather.gov/weekly/Usr_guide.pdf -- User Guide

