

Solar activity ranged from very low levels to high levels during the period. The period began at low levels with Regions 2255 (S16, L=321, class/area Dai/160 on 04 January) and 2260 (N10, L=286, class/area Cao/070 on 14 January) producing the majority of the C-class activity. High levels were observed on 13 January with moderate levels on 14 January as Region 2257 (N07, L=322, class/area Dki/480 on 09 January) produced the largest flares of the period; an M5/2b flare at 13/0424 UTC with an associated 290 sfu Tenflare, an M4 at 13/0458 UTC, and an M2 at 14/1258 UTC. Region 2257 was in decay from the beginning of the period until it rotated around the NW limb on 14 January. Solar activity returned to very low to low levels for the rest of the period. No Earth-directed coronal mass ejections were observed during the period.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit reached moderate levels from 12-15 January before decreasing to normal levels for the rest of the period.

Geomagnetic field activity was at mostly quiet to unsettled levels through the period. Solar wind was in a slow decline through the period from initial values near 510 km/s to around 320 km/s by the end of the period. Total field ranged from 5 nT to 10 nT, with a variable Bz component, and mostly positive phi angle. As a result, quiet to unsettled levels were observed from 12-17 January with quiet levels on 18 January.

Space Weather Outlook

19 January - 14 February 2015

Solar activity is expected to be at very low to low levels. A chance for M-class (R1-R2, Minor-Moderate) is expected with the re-emergence of old Regions 2253 (S07, L=003) and 2257 from 23 January through 09 February. A new spot group that emerged on the visible disk on 17 January, which was numbered as Region 2266 (S07, L=167, class/area Cri/030 on 18 January), has grown moderately during its relatively brief existence, however has not been very active. This new region may cause probabilities to increase in the next few days should it begin to be more productive.

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 21-28 January, 31 January-03 February, and again on 08-10 February due to recurrent coronal hole high speed stream (CH HSS) influence.

Geomagnetic field activity is expected to reach unsettled levels with active periods possible on 19-27 January, 29 January-04 February, and again from 06-09 February due to recurrent CH HSS activity.



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
12 January	159	111	950	C1.0	7	0	0	18	0	0	0	0
13 January	146	93	840	B7.5	3	2	0	5	0	1	0	0
14 January	142	89	570	B9.1	14	1	0	10	0	0	0	0
15 January	131	62	270	B6.5	5	0	0	5	0	0	0	0
16 January	125	75	220	B5.2	1	0	0	8	0	0	0	0
17 January	122	49	120	B4.6	0	0	0	5	0	0	0	0
18 January	126	78	150	B4.6	2	0	0	3	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
	12 January	1.9e+05	1.1e+04	2.8e+03		2.0e+07
13 January	2.2e+05	1.1e+04	2.9e+03		6.7e+06	
14 January	2.8e+05	1.2e+04	2.9e+03		5.2e+06	
15 January	4.2e+05	1.2e+04	2.8e+03		5.6e+06	
16 January	2.4e+05	1.1e+04	2.6e+03		2.7e+06	
17 January	2.8e+05	1.1e+04	2.4e+03		3.9e+06	
18 January	3.5e+05	1.2e+04	2.5e+03		3.5e+06	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	12 January	7	1-1-1-2-3-2-2-2	16	0-1-1-3-6-3-2-2	8
13 January	5	1-1-1-1-2-2-2-2	13	1-1-1-3-5-3-2-2	8	2-2-1-2-3-2-2-2
14 January	5	2-1-1-2-2-2-1-1	12	1-1-1-4-5-2-1-0	7	2-1-2-2-3-1-2-1
15 January	5	1-1-1-1-3-2-1-1	14	0-0-4-3-5-3-1-1	6	1-1-2-1-3-2-1-1
16 January	6	1-2-2-1-2-2-2-1	10	0-1-3-4-4-1-1-1	7	1-3-2-2-2-1-2-2
17 January	5	3-2-0-2-1-0-1-1	2	0-1-0-3-0-0-0-0	7	3-3-1-2-1-0-1-2
18 January	3	0-2-0-0-2-1-2-1	2	0-0-0-1-1-1-0-1	5	0-1-0-1-2-1-2-2

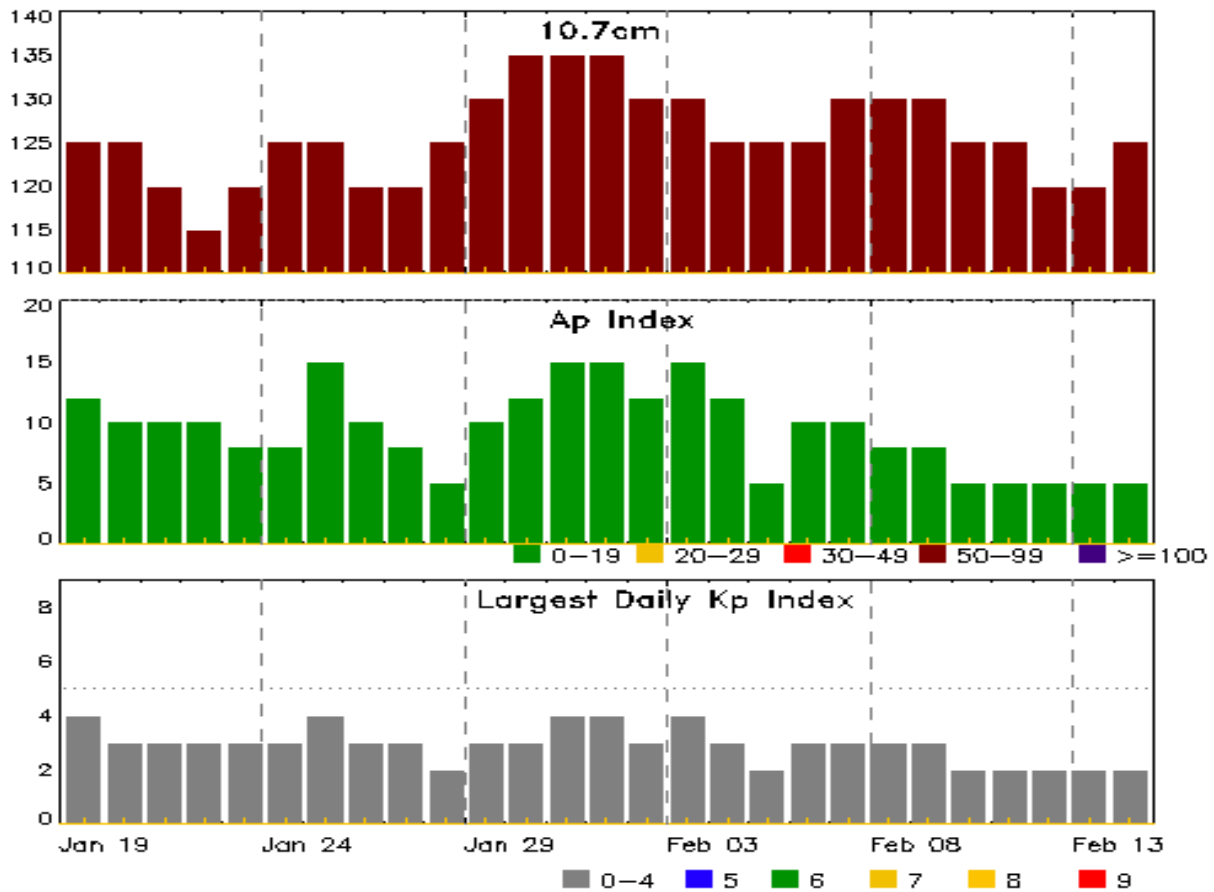


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
13 Jan 0425	ALERT: X-ray Flux exceeded M5	13/0423
13 Jan 0442	SUMMARY: 10cm Radio Burst	13/0419 - 0423
13 Jan 0444	SUMMARY: X-ray Event exceeded M5	13/0413 - 0438
16 Jan 2112	WATCH: Geomagnetic Storm Category G1 predicted	



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
19 Jan	125	12	4	02 Feb	130	12	3
20	125	10	3	03	130	15	4
21	120	10	3	04	125	12	3
22	115	10	3	05	125	5	2
23	120	8	3	06	125	10	3
24	125	8	3	07	130	10	3
25	125	15	4	08	130	8	3
26	120	10	3	09	130	8	3
27	120	8	3	10	125	5	2
28	125	5	2	11	125	5	2
29	130	10	3	12	120	5	2
30	135	12	3	13	120	5	2
31	135	15	4	14	125	5	2
01 Feb	135	15	4				

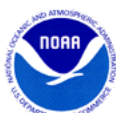


Energetic Events

Date	Time			X-ray		Optical Information			Peak		Sweep Freq	
	Begin	Max	Half Max	Class	Integ Flux	Imp/ Brtns	Location Lat CMD	Rgn #	245	2695	II	IV
13 Jan	0413	0424	0438	M5.6	0.045	2B	N06W70	2257		290		
13 Jan	0446	0458	0510	M4.9	0.062			2257				
14 Jan	1230	1258	1308	M2.2	0.020			2257				

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical Location Lat CMD	Rgn #
	Begin	Max	End				
12 Jan	0207	0209	0211		SF	N08W19	2260
12 Jan	0218	0225	0232	C3.1	SF	N07W57	2257
12 Jan	0426	0432	0436	C6.1	SF	N07W21	2260
12 Jan	0706	0708	0726		SF	S18W52	2255
12 Jan	0730	0731	0736		SF	S18W52	2255
12 Jan	0739	0750	0848	C3.1	SF	S18W52	2255
12 Jan	0912	U0913	A0921		SF	S19W52	2255
12 Jan	0945	U0946	A0952		SF	S20W52	2255
12 Jan	1019	1020	1024		SF	S20W52	2255
12 Jan	1032	1033	1040		SF	S10E24	2259
12 Jan	1106	1106	1119		SF	N07W26	2260
12 Jan	1233	1243	1253	C2.0	SF	S20W53	2255
12 Jan	1244	1254	1326		SF	N07W26	2260
12 Jan	1247	1255	1301	C5.6			2260
12 Jan	1408	1444	1510	C7.1	SF	S19W55	2255
12 Jan	1518	1521	1524	C3.7			2261
12 Jan	B1522	1526	1541		SF	S19W56	2255
12 Jan	B1522	1529	1555		SF	S12E41	2261
12 Jan	B1522	1613	1621		SF	N08W28	2260
12 Jan	1633	1648	1700		SF	N07W28	2260
13 Jan	0413	0424	0438	M5.6	2B	N06W70	2257
13 Jan	0446	0458	0510	M4.9			2257
13 Jan	0557	0602	0605		SF	S18W66	2255
13 Jan	0932	0933	0936		SF	N03W70	2257
13 Jan	1208	1209	1211		SF	N07W80	2257
13 Jan	1309	1314	1321	C2.4	SF	N04W79	2257
13 Jan	1456	1503	1522		SF	S17W70	2255
13 Jan	1932	1935	1939	C1.3			2257



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
13 Jan	2302	2306	2309	C1.4			2259
14 Jan	0019	0027	0033	C1.7			2257
14 Jan	0120	0121	0130		SF	S15E02	2259
14 Jan	0154	0157	0159	C1.6	SF	S14E04	2259
14 Jan	0225	0233	0240	C4.7			2257
14 Jan	0334	0347	0354	C9.7			2257
14 Jan	0444	0456	0505	C7.7			2257
14 Jan	0631	0636	0639	C1.8			
14 Jan	0646	0651	0657	C2.3	SF	S14W02	2259
14 Jan	0812	0813	0815		SF	N04W89	2257
14 Jan	0816	0816	0818		SF	S10E24	2259
14 Jan	0839	0845	0852	C2.6	SF	N07W86	2257
14 Jan	0917	0943	0952	C5.3			2257
14 Jan	1038	1042	1051	C1.9	SF	S15W03	2259
14 Jan	1151	1151	1156		SF	S13W09	2259
14 Jan	1230	1258	1308	M2.2			2257
14 Jan	1817	1826	1839	C2.3			2259
14 Jan	1940	1944	1948	C1.7			2260
14 Jan	2247	2324	2345	C3.0			2257
14 Jan	2329	2330	2338		SF	S03W71	2262
14 Jan	2342	2343	2345		SF	S03W71	2262
14 Jan	2355	2358	0001	C1.8			2257
15 Jan	0221	0225	0231	C2.1	SF	S03W72	2262
15 Jan	0306	0334	0412	C2.4			2257
15 Jan	0934	0936	0945		SF	S13W20	2259
15 Jan	1304	1304	1311		SF	N24E56	
15 Jan	1315	1316	1345		SF	N24E56	
15 Jan	1429	1429	1431		SF	S11W54	
15 Jan	1449	1459	1509	C2.4			2255
15 Jan	1639	1649	1705	C2.6			2257
15 Jan	2149	2155	2202	C1.2			2262
16 Jan	0005	0005	0013		SF	N09W74	2260
16 Jan	0025	0040	0101		SF	N09W74	2260
16 Jan	0105	0135	0148		SF	N09W74	2260
16 Jan	0149	0157	0204		SF	N09W74	2260
16 Jan	0213	0213	0218		SF	N08W74	2260
16 Jan	0220	0233	0246		SF	N08W74	2260
16 Jan	0318	0330	0353	C1.8	SF	N08W74	2260



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/Brtns	Location Lat CMD	Rgn #
16 Jan	0717	0720	0724		SF	S16W07	2261
17 Jan	0402	0403	0410		SF	S19W35	2259
17 Jan	0437	0437	0439		SF	S17W36	2259
17 Jan	0606	0606	0609		SF	S17W36	2259
17 Jan	0725	0728	0730		SF	S19W38	2259
17 Jan	0916	0917	0920		SF	S18W38	2259
18 Jan	0451	0452	0456		SF	S05E27	
18 Jan	0541	0552	0601	C1.0			
18 Jan	0717	0718	0720		SF	S06E22	2266
18 Jan	2246	2251	2253	C1.0	SF	S18W57	2259



Region Summary

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 2255																		
01 Jan	S14E76	322	60	3	Hax	1	A											
02 Jan	S14E63	322	90	3	Hsx	1	A											
03 Jan	S15E51	321	100	3	Cao	3	B											
04 Jan	S16E38	321	160	4	Dai	9	BG					1						
05 Jan	S16E24	321	80	3	Dai	8	BG											
06 Jan	S16E11	320	100	5	Dso	5	B											
07 Jan	S14W02	321	90	7	Cso	6	B											
08 Jan	S14W16	321	60	3	Hsx	5	A											
09 Jan	S14W29	322	50	3	Hax	2	A											
10 Jan	S16W44	324	70	8	Dao	6	BG											
11 Jan	S15W55	322	130	12	Eao	18	BGD	1				3						
12 Jan	S15W68	322	110	11	Eao	11	BG	3				9						
13 Jan	S16W80	319	110	8	Dao	7	BG					2						
14 Jan	S16W89	316	80	7	Cao	3	B											
								4	0	0	15	0	0	0	0	0		

Crossed West Limb.

Absolute heliographic longitude: 321

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						
12 Jan	N07W68	322	380	11	Ekc	16	BGD	1				1						
13 Jan	N07W81	320	240	11	Eac	6	BGD	2	2			3		1				
14 Jan	N07W93	320	120	5	Dao	3	BG	8	1			2						
								21	3	0	19	1	1	0	0			

Crossed West Limb.

Absolute heliographic longitude: 320



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 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																
12 Jan	N16W02	256	plage																				
13 Jan	N16W16	257	plage																				
14 Jan	N16W30	257	plage																				
15 Jan	N16W44	258	plage																				
16 Jan	N16W58	259	plage																				
17 Jan	N16W72	260	plage																				
18 Jan	N16W86	261	plage																				
									1	0	0	0	0	0	0	0	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 256

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											
12 Jan	S15E13	239	350	12	Eko	9	BG					1											
13 Jan	S15W01	241	360	13	Eko	10	BG	1															
14 Jan	S15W13	240	260	11	Ekc	15	BGD	4				6											
15 Jan	S16W24	238	160	7	Dac	13	BD					1											
16 Jan	S17W36	237	130	6	Dai	13	BG																
17 Jan	S16W48	236	100	5	Dao	14	B					5											
18 Jan	S16W62	237	90	3	Cso	5	B	1				1											
									12	0	0	19	0	0	0	0	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 241



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 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									
12 Jan	N09W33	285	60	6	Dai	8	B	2				6									
13 Jan	N09W47	286	60	7	Dao	4	B														
14 Jan	N10W59	286	70	8	Cao	6	B	1													
15 Jan	N09W74	288	60	8	Cso	4	B														
16 Jan	N09W86	287	30	5	Cao	4	B	1				7									
								5	0	0		17	0	0	0	0					

Crossed West Limb.
 Absolute heliographic longitude: 282

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														
12 Jan	S11E31	223	30	2	Hsx	1	A	1				1									
13 Jan	S11E17	223	30	2	Hax	1	A														
14 Jan	S11E04	223	30	1	Hsx	1	A														
15 Jan	S11W09	223	20	2	Hax	1	A														
16 Jan	S12W22	223	20	2	Hsx	2	A					1									
17 Jan	S11W34	222	10	1	Axx	1	A														
18 Jan	S11W47	222	0	1	Axx	1	A														
								1	0	0		2	0	0	0	0					

Still on Disk.
 Absolute heliographic longitude: 223

Region 2262																					
10 Jan	S00W18	298	20	3	Cro	3	B														
11 Jan	S01W31	298	20	4	Cro	4	B	1				1									
12 Jan	S00W44	298	20	7	Cro	6	B														
13 Jan	N01W56	296	40	7	Cso	5	B														
14 Jan	S01W68	295	10	1	Axx	1	A					2									
15 Jan	S01W83	297	plage					2				1									
								3	0	0		4	0	0	0	0					

Crossed West Limb.
 Absolute heliographic longitude: 298



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 2263

15 Jan	N22E50	164	30	3	Cro	4	B											
16 Jan	N22E36	165	30	5	Dro	5	B											
17 Jan	N22E21	167	10	6	Bxo	4	B											
18 Jan	N21E09	166	10	3	Bxo	2	B											
										0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 166

Region 2264

16 Jan	N09E46	155	10	1	Axx	1	A											
17 Jan	N09E32	156	plage															
18 Jan	N09E19	156	plage															
										0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 156

Region 2265

18 Jan	S23W05	180	20	3	Cro	7	B											
										0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 180

Region 2266

18 Jan	S07E08	167	30	4	Cri	13	B					1						
										0	0	0	1	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 167

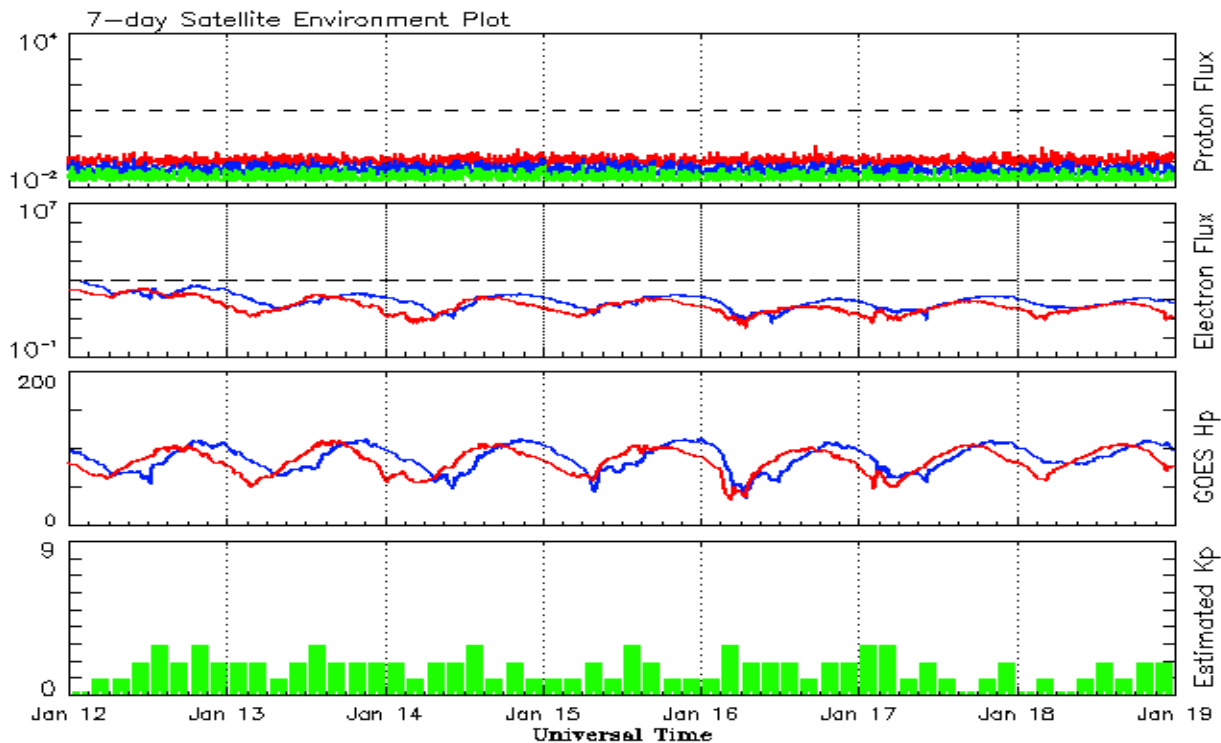


Recent Solar Indices (preliminary)
Observed monthly mean values

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 12 January 2015*

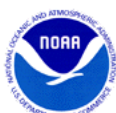
The proton flux plot contains the five-minute averaged integral proton flux (protons/cm²-sec -sr) as measured by the SWPC Primary GOES satellite, near West 75, for each of three energy thresholds: greater than 10, 50, and 100 MeV.

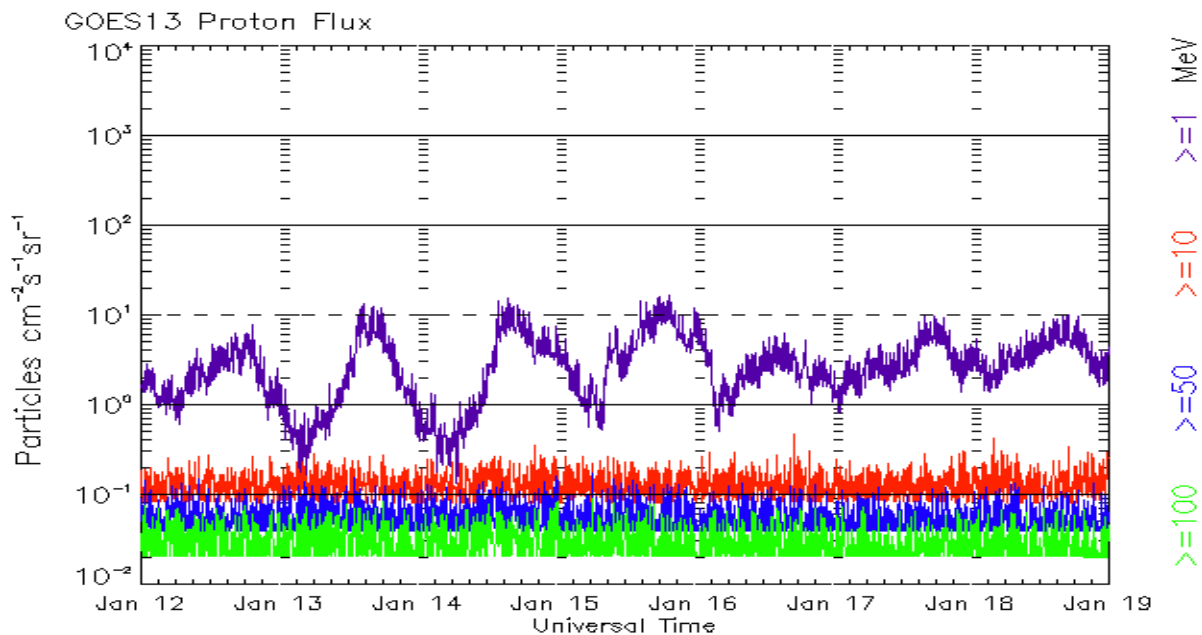
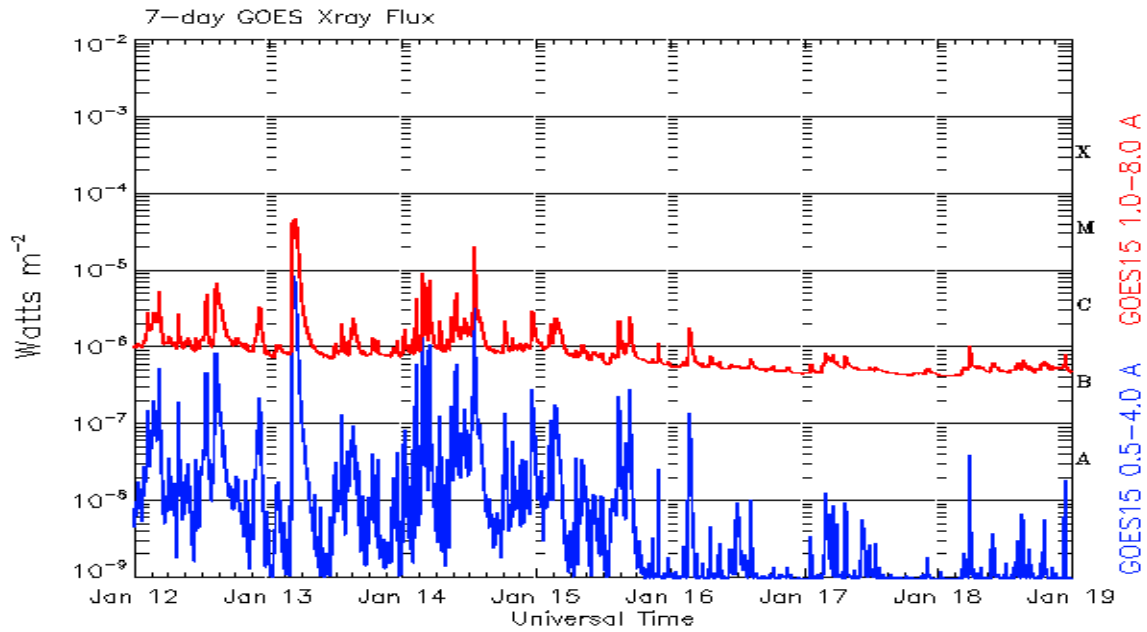
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 12 January 2015

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)

Published every Monday by the Space Weather Prediction Center.

U.S. Department of Commerce
NOAA / National Weather Service
Space Weather Prediction Center
325 Broadway, Boulder CO 80305

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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