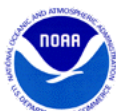


Solar activity was at very low to low levels during the period. The period began at low levels which persisted through 23 August. The majority of the C-class flare events were from Regions 1818 (S07, L=214, class/area Dhc/340 on 13 August), 1820 (S12, L=177, class/area Dai/130 on 21 August), and 1828 (N16, L=089, class/area Cao/60 on 20 August). The largest flare of the period was a C4/Sf which occurred at 22/0506 UTC from Region 1820. Moderate growth was observed in Region 1820 from 19-21 August and in Regions 1830 and 1831 on 22 and 23 August, respectively. By 25 August, the majority of the spotted regions had either decayed to plage or rotated around the western limb. Solar activity was at very low levels on 24 and 25 August. A 51-degree filament eruption centered near S47E24 erupted between 20/0400 UTC and 20/0829 UTC. An associated coronal mass ejection (CME) with an approximate speed of 681 km/s, first seen in SOHO/LASCO C2 imagery beginning at 20/0824 UTC, was observed with the majority of the ejecta off the SW limb.

A small enhancement in the greater than 10 MeV proton flux at geosynchronous orbit was observed beginning at approximately 20/2300 UTC, reached a maximum of 2 pfu at 21/1330, and returned to background levels around 21/2100 UTC. The enhancement was likely associated with backside CME activity.

The greater than 2 MeV electron flux at geosynchronous orbit was at moderate levels on 22 August. High levels were observed the rest of the period due to a combination of coronal hole high speed stream (CH HSS) and CME effects.

Geomagnetic field activity ranged from quiet to active levels. The period began with mostly quiet conditions on 19 and 20 August. By late on 20 August, the total field component (Bt) increased from 4 nT to 11 nT while the Bz component went south to -10 nT. A corresponding increase in solar wind speed and density was observed at 20/2135 UTC indicating a weak shock arrival from the 18 Aug CME associated with an M1 flare. Subsequently, a geomagnetic sudden impulse (26 nT) was observed on the Boulder magnetometer at 20/2231 UTC. Solar wind speed continued to increase from 380 km/s to near 550 km/s from 21 to 22 August with the total field between 3 and 10 nT while the Bz component varied between +7 nT and -6 nT as a positive polarity CH HSS became geoeffective. Solar wind conditions persisted through mid-day on 23 August reaching a maximum of 610 km/s at 22/0712 UTC. The geomagnetic field responded with unsettled to active levels on 21 August while quiet to active levels were observed on 22 and 23 August. Another weak shock passage (3 nT deviation in total field) was observed at 23/2355 UTC due to the arrival of a glancing blow from the 20 August CME. No significant geomagnetic effects were observed with the shock passage. The geomagnetic field was mostly quiet on 24 and 25 August.



Space Weather Outlook

26 August - 21 September 2013

Solar activity is expected to be at very low to low levels. A chance for an M-class flare exists with the return of old Region 1817 (S21, L=241) from 02-15 September.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be normal to moderate levels with high levels expected on 27-29 August, 02-07 September, 12-16 September, and again on 19-21 September due to activity associated with recurrent CH HSSs.

Geomagnetic field activity is expected to be mostly quiet with the exception of quiet to unsettled levels on 26-27 August and 05 September due to CH HSS activity. Unsettled to active levels are expected on 31 August - 02 September, 10-14 September, and again on 17-19 September 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
19 August	128	161	1030	B4.2	3	0	0	5	0	0	0	0
20 August	132	115	740	B4.8	3	0	0	1	0	0	0	0
21 August	130	149	730	B5.0	4	0	0	9	0	0	0	0
22 August	132	125	480	B5.9	8	0	0	4	0	0	0	0
23 August	124	127	420	B5.0	3	0	0	8	0	0	0	0
24 August	117	101	350	B3.9	0	0	0	1	0	0	0	0
25 August	113	46	260	B3.6	0	0	0	0	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
19 August	9.4e+05	1.1e+04	2.5e+03		2.8e+08	
20 August	1.9e+06	1.5e+04	2.7e+03		2.6e+08	
21 August	2.5e+06	6.8e+04	2.6e+03		1.4e+07	
22 August	5.5e+05	1.9e+04	2.5e+03		1.8e+07	
23 August	6.2e+05	1.3e+04	2.5e+03		3.7e+07	
24 August	3.1e+05	1.2e+04	2.3e+03		1.3e+08	
25 August	2.6e+05	1.2e+04	2.5e+03		6.6e+07	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
19 August	6	2-2-1-2-3-1-1-1	3	2-1-1-1-0-1-0-1	5	2-2-1-1-2-2-1-1
20 August	5	1-0-1-2-2-1-1-3	2	1-0-1-1-0-0-0-1	5	1-0-1-1-1-1-1-3
21 August	13	3-3-2-3-3-2-3-3	32	2-5-5-5-5-4-3-3	18	3-4-3-3-3-3-4-4
22 August	11	3-3-2-2-2-1-4-2	17	3-4-4-3-3-2-3-3	13	4-3-2-2-2-2-4-3
23 August	14	4-3-3-3-2-2-3-2	30	4-4-5-5-5-4-2-2	15	4-3-3-3-2-2-3-2
24 August	8	3-2-2-2-3-2-2-0	15	2-1-3-4-5-2-2-1	7	2-2-2-2-2-2-2-1
25 August	7	0-2-2-2-3-2-2-1	15	1-2-2-6-3-2-0-1	7	1-2-2-3-2-2-1-1

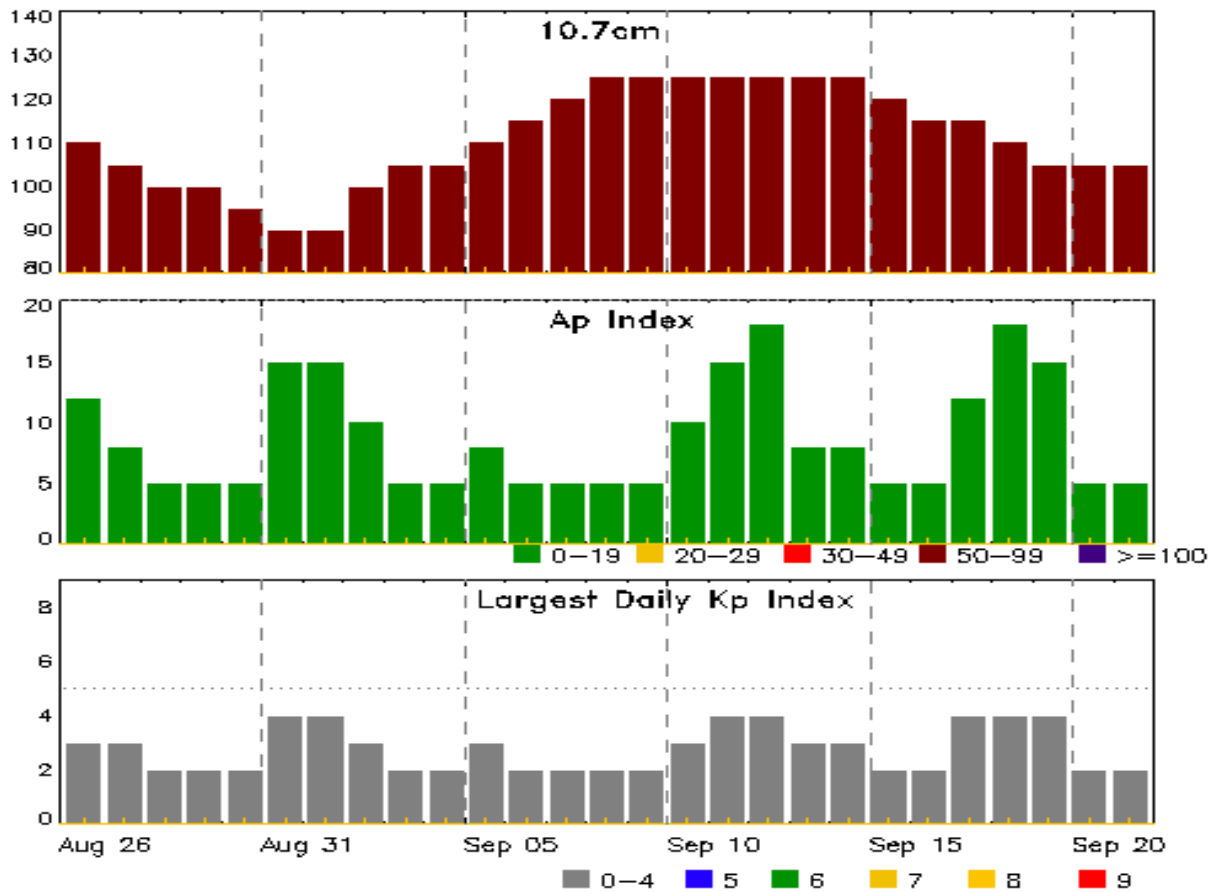


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
19 Aug 0500	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	16/1800
20 Aug 0503	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	16/1800
20 Aug 2239	SUMMARY: Geomagnetic Sudden Impulse	20/2231
21 Aug 0213	WARNING: Geomagnetic K = 4	21/0215 - 1300
21 Aug 0518	ALERT: Geomagnetic K = 4	21/0507
21 Aug 1236	EXTENDED WARNING: Geomagnetic K = 4	21/0215 - 1600
21 Aug 1912	WARNING: Geomagnetic K = 4	21/1915 - 22/2300
21 Aug 1921	ALERT: Geomagnetic K = 4	21/1914
21 Aug 2335	WARNING: Geomagnetic K = 4	21/2345 - 22/0700
22 Aug 0004	ALERT: Geomagnetic K = 4	21/2359
22 Aug 0656	EXTENDED WARNING: Geomagnetic K = 4	21/2345 - 22/1300
22 Aug 1449	WATCH: Geomagnetic Storm Category G1 predicted	
22 Aug 1932	WARNING: Geomagnetic K = 4	22/1932 - 2300
22 Aug 2046	ALERT: Geomagnetic K = 4	22/2043
22 Aug 2255	EXTENDED WARNING: Geomagnetic K = 4	22/1932 - 23/0700
23 Aug 0654	EXTENDED WARNING: Geomagnetic K = 4	22/1932 - 23/1300
23 Aug 1515	ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1500
24 Aug 1236	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1500
25 Aug 1150	CANCELLATION: Geomagnetic Storm Category G1 predicted	
25 Aug 1231	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	23/1500



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
26 Aug	110	12	3	09 Sep	125	5	2
27	105	8	3	10	125	10	3
28	100	5	2	11	125	15	4
29	100	5	2	12	125	18	4
30	95	5	2	13	125	8	3
31	90	15	4	14	125	8	3
01 Sep	90	15	4	15	120	5	2
02	100	10	3	16	115	5	2
03	105	5	2	17	115	12	4
04	105	5	2	18	110	18	4
05	110	8	3	19	105	15	4
06	115	5	2	20	105	5	2
07	120	5	2	21	105	5	2
08	125	5	2				



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		Intensity	
									245	2695	II	IV

No Events Observed

Flare List

Date	Time			X-ray Class	Optical		
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	Rgn #
19 Aug	0442	0446	0451	B7.2			1817
19 Aug	0910	0920	0923	C2.2	SF	N27E85	1817
19 Aug	1053	1057	1102	B8.8			
19 Aug	1126	1135	1147	C1.0	SF	S09W50	1818
19 Aug	1532	1540	1608		SF	S11E24	1823
19 Aug	1814	1814	1821		SF	N15W25	1825
19 Aug	2034	2034	2042		SF	S14W19	1820
19 Aug	2158	2203	2207	C1.0			1825
20 Aug	0125	0129	0132	C1.8			1818
20 Aug	0454	0608	0623	C1.3			1817
20 Aug	0800	0803	0810		SF	N15E68	1828
20 Aug	0957	1000	1002	C1.6			1818
20 Aug	2044	2048	2051	B9.4			
21 Aug	0204	0207	0209	B7.7			1825
21 Aug	0336	0406	0408	C1.3			1823
21 Aug	0405	0405	0409		SF	S14W34	1820
21 Aug	0454	0500	0503	C1.6	SF	N04W49	1829
21 Aug	0651	0654	0659		SF	N01W53	
21 Aug	0717	0717	0721		SF	S15W36	1820
21 Aug	0725	0743	0803	C2.2	SF	N14E55	1828
21 Aug	B0906	U0911	A0931		SF	S15W37	1820
21 Aug	0909	0909	0924		SF	S14W40	1820
21 Aug	1125	1134	1148	C1.1			1818
21 Aug	1408	1409	1412		SF	N15E52	1828
21 Aug	1753	1754	1800		SF	N16E42	1828
21 Aug	2319	2324	2329	B9.9			
22 Aug	0040	0049	0122	C1.0			1824
22 Aug	0449	0506	0515	C4.1	SF	S18E09	1820
22 Aug	1144	1155	1204	C1.4	SF	N17E38	1828
22 Aug	1316	1325	1338	C2.4			1818
22 Aug	1908	1918	1926	C1.5	SF	S12W53	1820



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
22 Aug	2021	2026	2033	C1.4	SF	N15E34	1828
22 Aug	2116	2207	2234	C1.9			1828
22 Aug	2352	0031	0049	C1.9			1820
23 Aug	0642	0646	0650	C1.1	SF	S17E18	1827
23 Aug	0734	0735	0736		SF	S16W58	1820
23 Aug	0745	0801	0822		SF	N10W52	1831
23 Aug	0825	0826	0830		SF	S16W58	1820
23 Aug	0950	1006	1009		SF	S17W59	1820
23 Aug	1040	1041	1043		SF	S17W59	1820
23 Aug	1232	1235	1237		SF	S16W59	1820
23 Aug	1530	1533	1535	B8.8			1820
23 Aug	1540	1557	1606	C1.4			1820
23 Aug	1645	1700	1715	C1.0	SF	S08W64	1830
23 Aug	2127	2131	2133	B9.2			1820
24 Aug	0112	0112	0114		SF	S14W73	1820



Region Summary

Date	Location	Sunspot Characteristics						Flares							
	Lat CMD	Helio	Area 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical				
		Lon						C	M	X	S	1	2	3	4
Region 1814															
07 Aug	S27E64	251	30	1	Hsx	1	A								
08 Aug	S26E50	252	40	3	Hsx	1	A								
09 Aug	S26E36	252	20	1	Hax	1	A								
10 Aug	S26E22	253	20	1	Hax	1	A								
11 Aug	S27E09	254	30	1	Hax	1	A								
12 Aug	S27W04	253	10	1	Hax	1	A								
13 Aug	S27W18	254	10	1	Hrx	1	A								
14 Aug	S27W32	255	plage												
15 Aug	S27W46	256	plage												
16 Aug	S27W60	257	plage												
17 Aug	S27W74	257	plage												
18 Aug	S27W88	258	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 253

Region 1817															
10 Aug	S22E34	242	10	3	Cro	3	B	1							
11 Aug	S22E22	241	50	7	Dao	12	B	6			5				
12 Aug	S23E07	241	180	9	Dac	23	BGD		1		3				
13 Aug	S21W04	240	240	12	Esc	22	BG				1				
14 Aug	S21W17	239	220	11	Esc	22	B	5			2	1			
15 Aug	S21W31	241	260	12	Ekc	22	BGD	2			1				
16 Aug	S21W44	241	140	12	Eai	13	BGD				1				
17 Aug	S21W57	240	150	12	Eso	8	BD								
18 Aug	S21W70	240	140	12	Cao	6	B				2				
19 Aug	S19W88	243	60	4	Cso	3	B	1			1				
								15	1	0	16	1	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 240



Region Summary - continued

Date	Location	Sunspot Characteristics						Flares							
	Lat CMD	Helio	Area 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical				
		Lon						C	M	X	S	1	2	3	4
Region 1818															
09 Aug	S07E72	217	plage					1							
10 Aug	S07E58	218	20	1	Hrx	1	A								
11 Aug	S08E47	216	60	6	Dao	9	BG				6				
12 Aug	S07E34	214	120	6	Dsi	8	BG				1				
13 Aug	S07E21	214	340	9	Dhc	17	BG	2			2				
14 Aug	S07E07	214	270	8	Dhc	15	B				3				
15 Aug	S07W07	217	300	8	Dki	15	B	2			2				
16 Aug	S07W19	216	330	8	Dki	16	BGD	2			5				
17 Aug	S07W33	216	300	7	Dko	13	BGD	1	2		3		1		
18 Aug	S06W47	217	260	6	Cko	7	BD								
19 Aug	S04W61	217	250	4	Hkx	3	A	1			1				
20 Aug	S05W76	218	210	2	Hax	2	A	2							
21 Aug	S06W91	221	150	6	Hsx	1	A	1							
								12	2	0	23	0	1	0	0

Crossed West Limb.

Absolute heliographic longitude: 214

Region 1819

10 Aug	S20E49	227	10		Axx	1	A								
11 Aug	S20E37	226	10	3	Bxo	2	B	1							
12 Aug	S20E21	227	10	6	Hrx	2	A								
13 Aug	S17E07	228	20	5	Cro	4	B								
14 Aug	S18W05	227	30	6	Dso	8	B				1				
15 Aug	S17W19	229	20	5	Cao	6	B								
16 Aug	S16W32	229	10	3	Bxo	4	B								
17 Aug	S16W46	229	plage												
18 Aug	S16W60	230	plage												
19 Aug	S16W74	231	plage												
20 Aug	S16W88	232	plage												
								1	0	0	1	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 227



Region Summary - continued

Date	Location	Sunspot Characteristics						Flares							
	Lat CMD	Helio	Area 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical				
		Lon						C	M	X	S	1	2	3	4
<i>Region 1820</i>															
13 Aug	S13E59	176	60	10	Cso	4	B								
14 Aug	S12E45	177	20	11	Cro	6	B								
15 Aug	S13E31	179	30	11	Cro	7	B								
16 Aug	S13E25	172	20	3	Cro	7	B								
17 Aug	S13E10	173	10	3	Bxo	5	B								
18 Aug	S13W03	173	10	3	Bxo	5	B								
19 Aug	S12W19	175	10	6	Bxo	5	B					1			
20 Aug	S12W34	177	60	5	Dai	10	BG								
21 Aug	S12W47	177	130	8	Dai	15	BG					4			
22 Aug	S12W61	177	110	9	Dao	8	B	3				1			
23 Aug	S12W73	176	70	9	Cao	3	B	1				5			
24 Aug	S13W83	174	40	2	Hsx	1	A					1			
								4	0	0	12	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 173

Region 1821

14 Aug	N01W22	244	10	3	Bxo	4	B								
15 Aug	N01W35	245	10	3	Bxo	3	B								
16 Aug	N01W50	247	plage												
17 Aug	N01W65	248	plage												
18 Aug	N01W78	248	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 244



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 1822

15 Aug	S08E57	153	30	7	Dao	5	B								
16 Aug	S08E44	153	20	4	Cro	3	B								
17 Aug	S08E30	153	10	4	Bxo	3	B								
18 Aug	S08E15	155	10	3	Bxo	2	B								
19 Aug	S11W00	156	10	3	Bxo	3	B								
20 Aug	S11W14	158	plage												
21 Aug	S11W28	158	plage												
22 Aug	S11W42	159	plage												
23 Aug	S11W56	160	plage												
24 Aug	S11W70	161	plage												
25 Aug	S11W84	162	plage												
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 156

Region 1823

15 Aug	S07E72	138	120	2	Hsx	1	A								
16 Aug	S07E57	140	130	3	Hsx	1	A								
17 Aug	S07E43	140	120	2	Hsx	1	A								
18 Aug	S07E29	141	120	3	Cso	5	B								
19 Aug	S08E17	140	170	4	Cso	4	B				1				
20 Aug	S08E03	139	120	6	Cso	5	B								
21 Aug	S07W10	140	120	6	Cso	5	B	1							
22 Aug	S07W23	139	100	2	Hsx	1	A								
23 Aug	S06W37	140	100	2	Hsx	1	A								
24 Aug	S07W49	139	90	2	Hsx	1	A								
25 Aug	S10W63	140	60	1	Hsx	1	A								
								1	0	0	1	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 139



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 1824

17 Aug	S14W13	196	40	4	Dao	6	B								
18 Aug	S14W26	196	100	6	Dao	9	BG								
19 Aug	S14W40	196	120	6	Dao	9	B								
20 Aug	S12W53	196	50	6	Cao	3	B								
21 Aug	S12W70	199	10		Axx	1	A								
22 Aug	S12W84	201	plage					1							
								1	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 196

Region 1825

18 Aug	N16W12	182	10	4	Bxo	6	B				1				
19 Aug	N17W27	183	70	6	Dai	20	BG	1			1				
20 Aug	N16W40	183	80	8	Dao	12	B								
21 Aug	N15W55	185	70	7	Cso	5	B								
22 Aug	N14W69	186	50	6	Hax	2	A								
23 Aug	N15W86	189	30	1	Hax	1	A								
								1	0	0	2	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 182

Region 1826

18 Aug	N08E21	149	10	1	Axx	1	A								
19 Aug	N13E01	155	10	3	Bxo	2	B								
20 Aug	N13W13	157	plage												
21 Aug	N13W27	157	plage												
22 Aug	N13W41	158	plage												
23 Aug	N13W55	159	plage												
24 Aug	N13W69	160	plage												
25 Aug	N13W83	161	plage												
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 155



Region Summary - continued

Date	Location		Sunspot Characteristics					Flares							
	Lat CMD	Helio	Area 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical				
		Lon						C	M	X	S	1	2	3	4

Region 1827

18 Aug	S17E70	100	180	6	Dso	3	B								
19 Aug	S18E58	98	300	8	Dao	8	B								
20 Aug	S18E44	98	160	9	Dao	7	BG								
21 Aug	S18E32	97	130	7	Dac	8	B								
22 Aug	S18E18	98	60	6	Dao	8	B								
23 Aug	S18E05	98	30	5	Cro	8	B	1			1				
24 Aug	S18W06	96	10	5	Bxo	4	B								
25 Aug	S18W20	98	plage												
								1	0	0	1	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 98

Region 1828

19 Aug	N15E65	92	30	9	Cao	4	B								
20 Aug	N16E57	89	60	11	Cao	6	B				1				
21 Aug	N15E41	88	40	8	Cao	3	B	1			3				
22 Aug	N14E26	90	20	2	Cro	1	B	3			2				
23 Aug	N15E14	89	20	3	Cro	3	B								
24 Aug	N15W00	89	20	2	Hrx	3	A								
25 Aug	N05W13	90	10	1	Bxo	2	B								
								4	0	0	6	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 89

Region 1829

21 Aug	N06W60	190	40	5	Dao	5	B	1							
22 Aug	N05W74	190	30	4	Cro	3	B								
23 Aug	N05W88	192	plage												
								1	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 190



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 1830

21 Aug	S06W37	167	10	4	Bxo	3	B								
22 Aug	S06W51	168	50	6	Dao	5	B								
23 Aug	S05W64	168	70	9	Dao	5	B	1			1				
24 Aug	S05W78	168	70	11	Cao	5	B								
								1	0	0	1	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 167

Region 1831

21 Aug	N14W34	164	30	3	Cao	3	B								
22 Aug	N13W49	166	30	4	Dro	5	B								
23 Aug	N14W63	166	60	6	Dao	7	B				1				
24 Aug	N13W77	167	80	6	Cao	3	B								
								0	0	0	1	0	0	0	0

Died on Disk.

Absolute heliographic longitude: 164

Region 1832

22 Aug	N25W49	166	30	4	Cso	2	B								
23 Aug	N25W61	165	30	4	Cro	6	B								
24 Aug	N25W76	166	plage												
25 Aug	N25W90	168	plage												
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 166

Region 1833

23 Aug	N18E07	96	10	2	Bxo	3	B								
24 Aug	N18W07	98	plage												
25 Aug	N18W21	99	plage												
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 96

Region Summary - continued

Location			Sunspot Characteristics					Flares							
Date	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 1834

24 Aug	N14E71	19	10	9	Bxo	3	B								
25 Aug	N14E64	16	10	1	Bxo	2	B								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 16

Region 1835

24 Aug	S09E80	10	30	2	Hsx	1	A								
25 Aug	S10E63	13	180	2	Hsx	1	A								
								0	0	0	0	0	0	0	0

Still on Disk.

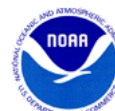
Absolute heliographic longitude: 13

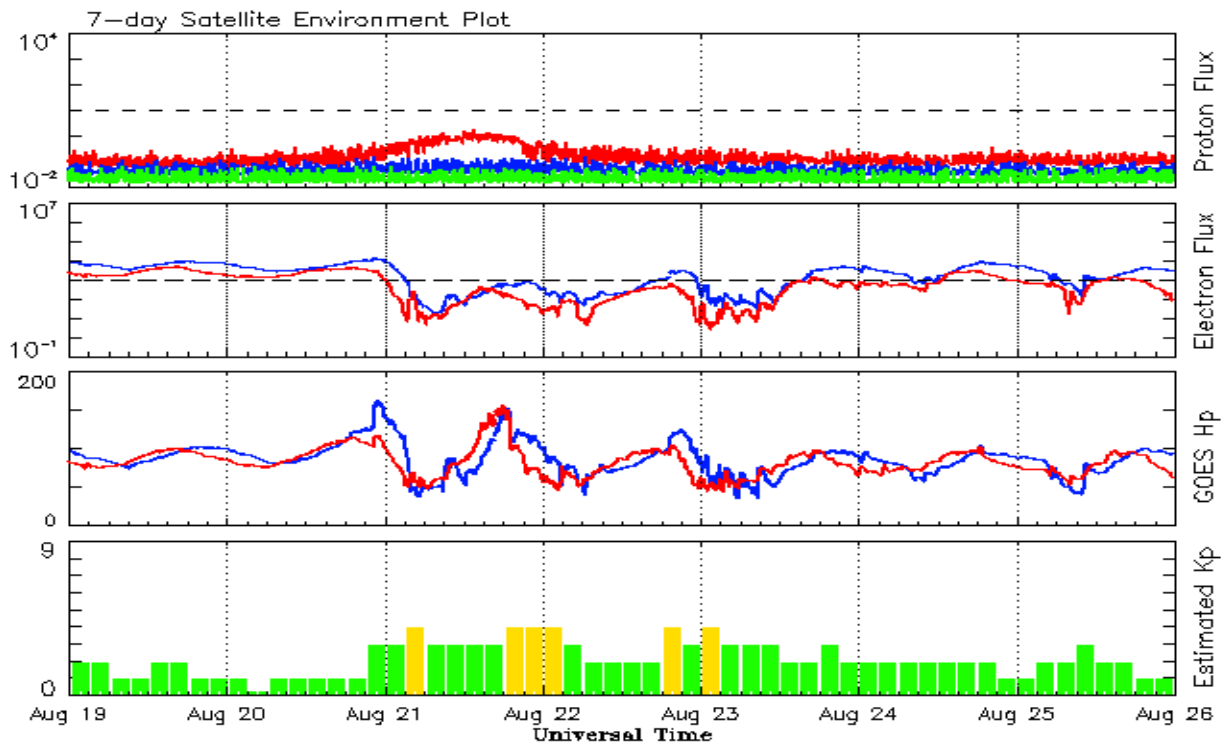


Recent Solar Indices (preliminary)
Observed monthly mean values

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
2011									
August	66.1	50.6	0.77	84.9	59.0	101.7	117.9	8	7.4
September	106.4	78.0	0.73	84.6	59.5	134.5	118.4	13	7.7
October	116.8	88.0	0.75	84.6	59.9	137.2	118.4	7	8.0
November	133.1	96.7	0.73	86.3	61.1	153.1	119.5	3	8.0
December	106.3	73.0	0.69	89.2	63.4	141.2	121.6	3	8.0
2012									
January	91.3	58.3	0.64	92.0	65.5	133.1	124.4	6	8.3
February	50.1	32.9	0.66	94.2	66.9	106.7	126.7	7	8.4
March	77.9	64.3	0.82	94.1	66.8	115.1	126.8	14	8.1
April	84.4	55.2	0.65	91.3	64.6	113.1	125.8	9	8.0
May	99.5	69.0	0.69	87.7	61.7	121.5	123.8	8	8.2
June	88.6	64.5	0.73	83.9	58.9	120.5	121.1	10	8.3
July	99.6	66.5	0.67	82.4	57.8	135.6	119.5	13	8.3
August	85.8	63.0	0.74	83.1	58.2	115.7	119.2	7	8.1
September	84.0	61.4	0.73	83.7	58.1	123.2	118.9	8	7.8
October	73.5	53.3	0.73	85.0	58.6	123.3	119.2	9	7.4
November	89.2	61.8	0.69	87.3	59.7	120.9	120.1	6	7.3
December	60.4	40.8	0.68	88.0	59.6	108.4	120.1	3	7.5
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			104.4		5	
March	81.0	57.9	0.71			111.2		9	
April	112.8	72.4	0.64			125.0		5	
May	125.5	78.7	0.63			131.3		10	
June	80.1	52.5	0.66			110.2		13	
July	86.1	57.0	0.66			115.6		9	

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 19 August 2013*

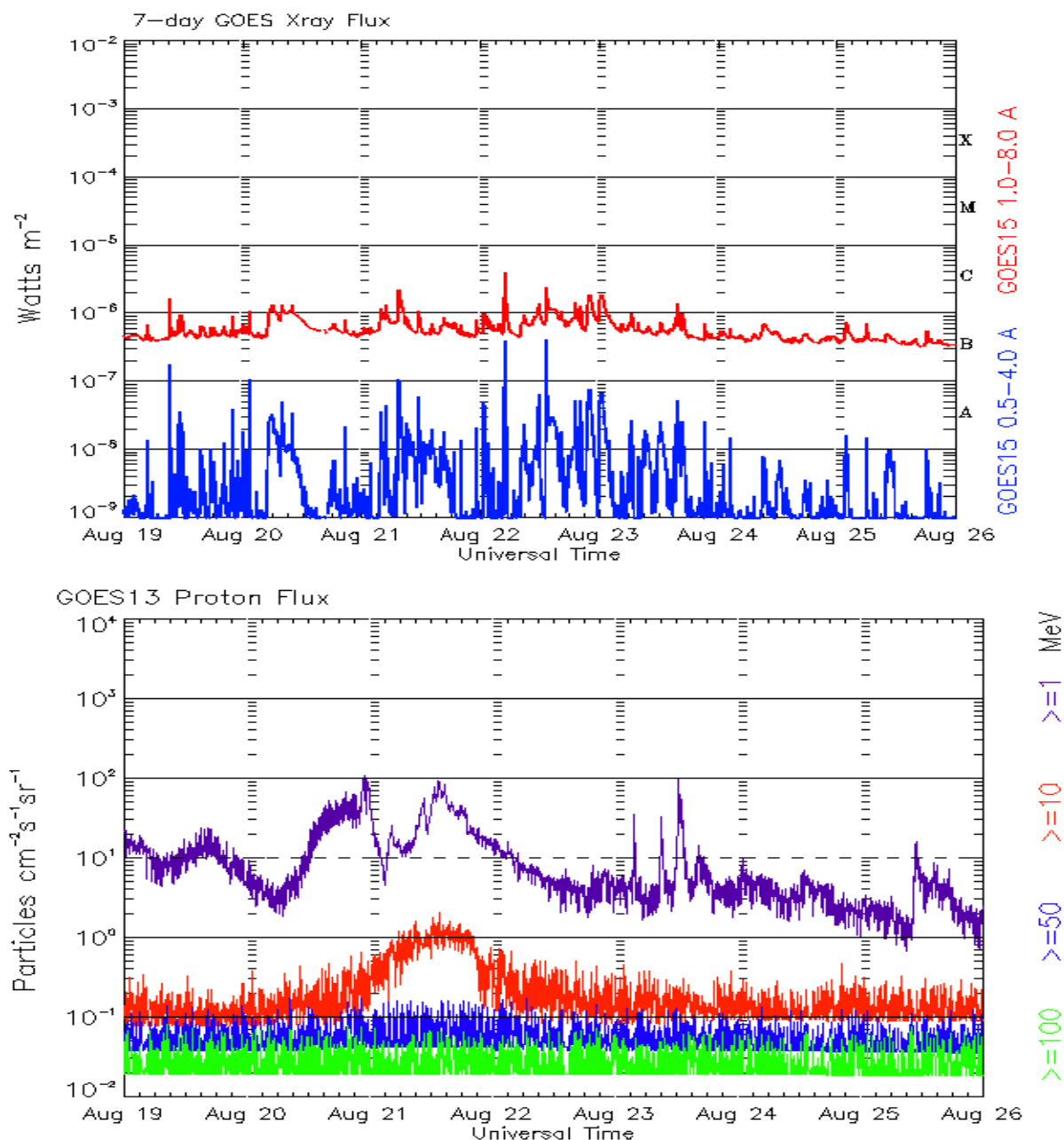
The proton flux plot contains the five-minute averaged integral proton flux (protons/cm²-sec -sr) as measured by the SWPC Primary GOES satellite, near West 75, for each of three energy thresholds: greater than 10, 50, and 100 MeV.

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 19 August 2013*

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 integral flux units ($\text{pfu} = \text{protons/cm}^2\text{-sec -sr}$) 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

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

<http://spaceweather.gov/weekly/> -- Current and previous year

<http://spaceweather.gov/ftpmenu/warehouse.html> -- Online archive from 1997

<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

