

Solar activity ranged from low to high levels. Low levels persisted from 18 August through 20 August. By 21-22 August, moderate levels were observed as Region 2149 (N11, L=278, class/area Eac/190 on 24 August) produced an M3/Sf flare at 21/1331 UTC and an M1/1f at 22/0628 UTC. Other activity on 22 August included a C2/Sf flare at 22/1027 UTC and a C6/Sn flare at 22/1552 UTC from Region 2146 (N09, L=346, class/area Dki/280 on 24 August). The C2 flare had an associated Type II (465 km/s) and Type IV radio emissions along with a partially Earth-directed coronal mass ejection (CME) first observed off the west limb in SOHO/LASCO C2 imagery at 22/1124 UTC. The C6 flare also had a Type II radio sweep (449 km/s) as well as a partial Earth-directed CME first visible in SOHO/LASCO C2 imagery at 22/1636 UTC. By 23 August, low levels returned, however Region 2146 did produce two flares (C6/Sf at 23/1727 UTC and a C1/Sf at 24/0016 UTC) with associated CMEs that were determined not to have a geoeffective component. By 24 August, high levels were observed due to an M5/2b flare at 24/1217 UTC from Region 2151 (S07, L=255, class/area Hax/110 on 24 August) which rotated around the SE limb on 23 August as a relatively simple looking alpha magnetic spot classification. Associated with this event was fairly weak discrete radio emissions, along with a Type II radio sweep (593 km/s), 10 cm radio burst (410 sfu), and an impressive CME off the ESE limb visible in SOHO/LASCO C2 imagery beginning at 24/1236 UTC. Due to the trajectory and location of this CME, it is unlikely to have a geoeffective component.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was normal to moderate levels. Moderate levels were observed from 21 August through 24 August.

Geomagnetic field activity ranged from quiet to major storm levels. The geomagnetic field was quiet until late on 19 August when a CME associated with a filament eruption on 15 August impacted the geomagnetic field. At approximately 19/0558 UTC, a shock passage was observed at the ACE spacecraft. Total field increased from 7 to 13 nT, the Bz component went south to -11 nT, and solar wind speed increased from 289 km/s to 400 km/s initially. By 20 August, solar wind speed reached a maximum of 452 km/s at 19/1545 UTC before slowly declining thereafter. Total field reached a maximum of 21 nT at 20/0427 UTC while the maximum southward deflection of the Bz component reached -16 at 19/1936 UTC. A geomagnetic sudden impulse of 12 nT was observed in the Boulder magnetometer at 19/0700 UTC. Quiet to unsettled conditions were initially experienced until late on 19 August when active to major storm levels were observed. Quiet conditions prevailed on 20 August despite the continued presence of the 15 August CME observed in ACE solar wind measurements. Quiet to unsettled conditions were observed on 21-22 August as CME effects slowly diminished. Quiet conditions were observed on 23-24 August.



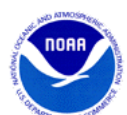
Space Weather Outlook 25 August - 20 September 2014

Solar activity is expected to be low with M-class flares (R1-R2, Minor-Moderate) likely and a slight chance for X-class flares (R3-Strong) from 25 August through 03 September as Regions 2146, 2149, and 2151 transit across the visible disk. From 04-20 September very low to low levels are expected.

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. A chance for high levels exists from 31 August through 04 September and again from 08-10 September due to coronal hole high speed stream (CH HSS) influence.

Geomagnetic field activity is expected to be at quiet to active conditions from 26-28 August as the CMEs from 22 August are expected to impact the geomagnetic field. Unsettled to active conditions are expected to continue through 02 September as a pair of positive polarity CH HSS are expected to become geoeffective. A recurrent negative polarity CH HSS is expected to cause unsettled to active levels on 07-08 September, while solar sector boundary crossings may cause unsettled periods on 06 September and 13 September.



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
18 August	111	92	510	B2.7	2	0	0	9	1	0	0	0
19 August	111	84	460	B2.6	1	0	0	5	0	0	0	0
20 August	118	89	320	B3.8	9	0	0	7	1	0	0	0
21 August	128	128	450	B5.8	9	1	0	10	0	0	0	0
22 August	126	139	660	B5.3	9	1	0	11	3	1	0	0
23 August	132	124	800	B5.0	7	0	0	18	2	0	0	0
24 August	141	128	890	B5.9	7	1	0	14	1	1	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
	18 August	3.2e+05	1.1e+04	2.5e+03		2.8e+05
19 August	1.7e+05	1.1e+04	2.6e+03		1.5e+05	
20 August	7.5e+04	1.1e+04	2.6e+03		1.6e+05	
21 August	9.7e+04	1.1e+04	2.5e+03		9.4e+06	
22 August	3.3e+05	1.2e+04	2.8e+03		1.1e+07	
23 August	3.5e+05	1.1e+04	2.5e+03		1.7e+07	
24 August	2.9e+05	1.1e+04	2.6e+03		1.2e+07	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	18 August	5	1-1-2-1-2-2-1-1	3	1-2-2-0-1-1-1-0	5
19 August	14	1-1-2-3-3-2-3-5	11	1-1-2-4-2-2-2-4	17	1-1-2-3-2-2-4-6
20 August	7	2-1-1-2-3-1-2-2	4	1-1-1-1-1-1-2-1	6	2-1-1-2-2-1-1-2
21 August	12	3-3-2-3-3-1-3-2	27	2-3-4-6-5-4-2-2	11	3-3-2-2-2-1-3-2
22 August	4	2-2-1-1-2-1-1-0	3	2-2-0-0-2-0-0-1	4	1-3-1-0-1-0-0-1
23 August	8	1-3-3-2-1-2-2-1	3	1-1-2-1-0-1-1-0	5	1-2-2-1-1-1-1-1
24 August	5	1-0-2-2-2-2-2-1	1	0-0-1-2-0-0-0-0	4	1-1-1-1-2-1-1-1

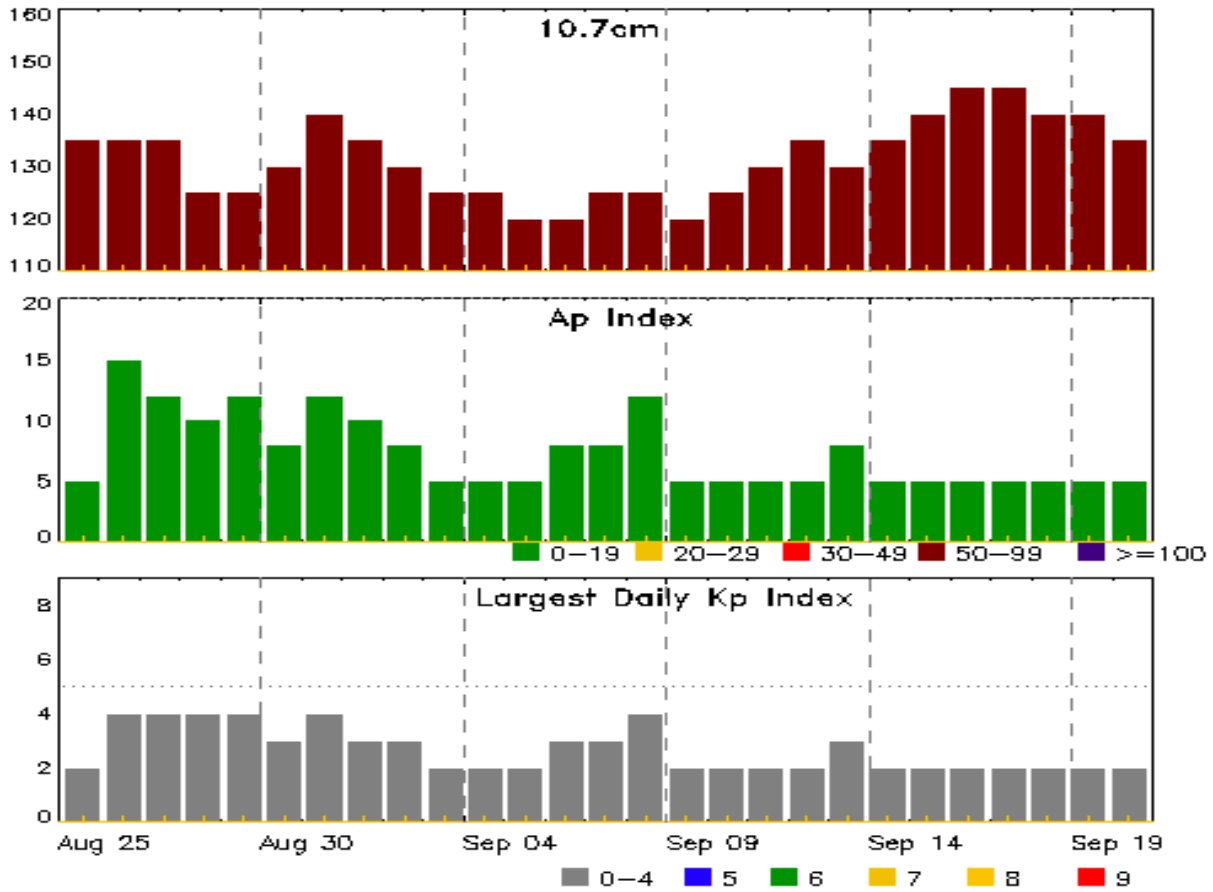


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
18 Aug 0613	WARNING: Geomagnetic K = 4	18/0615 - 1300
18 Aug 1954	WATCH: Geomagnetic Storm Category G1 predicted	
19 Aug 0615	WARNING: Geomagnetic Sudden Impulse expected	19/0650 - 0750
19 Aug 0658	WARNING: Geomagnetic K = 4	19/0715 - 1915
19 Aug 0713	SUMMARY: Geomagnetic Sudden Impulse	19/0700
19 Aug 1817	EXTENDED WARNING: Geomagnetic K = 4	19/0715 - 20/0800
19 Aug 2056	ALERT: Geomagnetic K = 4	19/2051
19 Aug 2135	WARNING: Geomagnetic K = 5	19/2135 - 20/0700
19 Aug 2141	ALERT: Geomagnetic K = 5	19/2136
19 Aug 2149	WARNING: Geomagnetic K = 6	19/2146 - 20/0500
19 Aug 2151	WATCH: Geomagnetic Storm Category G2 predicted	
19 Aug 2306	ALERT: Geomagnetic K = 6	19/2301
20 Aug 0754	EXTENDED WARNING: Geomagnetic K = 4	19/0715 - 20/1300
21 Aug 0146	WARNING: Geomagnetic K = 4	21/0145 - 0700
21 Aug 0655	EXTENDED WARNING: Geomagnetic K = 4	21/0145 - 1300
21 Aug 1944	WARNING: Geomagnetic K = 4	21/1941 - 22/0500
22 Aug 0036	ALERT: Type IV Radio Emission	22/0002
22 Aug 0940	ALERT: Type II Radio Emission	22/0009
22 Aug 1101	ALERT: Type II Radio Emission	22/1017
22 Aug 1102	ALERT: Type IV Radio Emission	22/1033
22 Aug 1641	ALERT: Type II Radio Emission	22/1544
24 Aug 0146	ALERT: Type II Radio Emission	24/0015
24 Aug 0527	ALERT: Type IV Radio Emission	24/0121
24 Aug 1217	ALERT: X-ray Flux exceeded M5	24/1216
24 Aug 1249	ALERT: Type II Radio Emission	24/1214
24 Aug 1249	SUMMARY: 10cm Radio Burst	24/1209 - 1216
24 Aug 1256	SUMMARY: X-ray Event exceeded M5	24/1200 - 1225



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
25 Aug	135	5	2	08 Sep	125	12	4
26	135	15	4	09	120	5	2
27	135	12	4	10	125	5	2
28	125	10	4	11	130	5	2
29	125	12	4	12	135	5	2
30	130	8	3	13	130	8	3
31	140	12	4	14	135	5	2
01 Sep	135	10	3	15	140	5	2
02	130	8	3	16	145	5	2
03	125	5	2	17	145	5	2
04	125	5	2	18	140	5	2
05	120	5	2	19	140	5	2
06	120	8	3	20	135	5	2
07	125	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 #	245	2695	II	IV
21 Aug	1319	1331	1342	M3.4	0.026	SF	N06E38	2149	130			
22 Aug	0618	0628	0634	M1.2	0.007	1F	N12E73	2149				
24 Aug	1200	1217	1225	M5.9	0.039	2B	S07E75	2151	28	410	1	

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical Location Lat CMD	Rgn #
	Begin	Max	End				
18 Aug	0057	0058	0104		SF	S17W59	2144
18 Aug	0120	0122	0127		SF	N09E65	2146
18 Aug	0200	0203	0207	B4.9	SF	N09E63	2146
18 Aug	0624	0628	0632		SF	N11E63	2146
18 Aug	0648	0648	0653		SF	N10W14	2139
18 Aug	0754	0759	0805	B8.1			2144
18 Aug	0922	0925	0927	B4.4			2144
18 Aug	0940	0941	0943		SF	N11E57	2146
18 Aug	1134	1135	1143		SF	N10E61	2146
18 Aug	1243	1247	1311		SF	N10E61	2146
18 Aug	1326	1350	1414	C1.8	1F	S11E71	2147
18 Aug	1647	1656	1705	C1.2	SF	N10W18	2139
19 Aug	0536	0548	0604	B5.6	SF	S13E57	2147
19 Aug	0614	0648	0717	B8.1	SF	S12E57	2147
19 Aug	1013	1020	1030		SF	N14E47	2146
19 Aug	1031	1034	1040		SF	S04W01	2143
19 Aug	2322	2332	2342	C1.9	SF	N06E58	2148
20 Aug	0004	0010	0016	B9.5	1F	S12E46	2147
20 Aug	0527	0527	0550		SF	N10E53	2148
20 Aug	0705	0710	0736		SF	N07E51	2148
20 Aug	0809	0811	0820		SF	N09E52	2148
20 Aug	0901	0914	0935	C1.5			
20 Aug	1150	1154	1204	B7.6			
20 Aug	1238	1251	1256	C4.9			
20 Aug	B1340	U1351	A1405		SF	N13E28	2146
20 Aug	1513	1523	1542	C1.3			2148
20 Aug	1532	1532	1542		SF	N08E47	2148
20 Aug	1618	1622	1627	C1.8			2148



Flare List

Date	Time			X-ray Class	Optical		
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	Rgn #
20 Aug	1743	1756	1808	C2.6			
20 Aug	1850	1911	1929	C3.2			
20 Aug	1938	1957	2003	C2.9			
20 Aug	2139	2157	2210	C2.1	SF	N12E23	2146
20 Aug	2201	2202	2203		SF	N14W47	2139
20 Aug	2305	2315	2321	B9.2			
20 Aug	2322	2331	2338	C1.1			
21 Aug	0026	0046	0105	C3.2			
21 Aug	0112	0137	0200	C3.2			
21 Aug	0129	0131	0135		SF	N07E41	2148
21 Aug	0312	0406	0440	C1.7	SF	N08E41	2148
21 Aug	0612	0614	0615		SF	S05W29	2143
21 Aug	0841	0855	0901	B8.8			2146
21 Aug	0848	0850	0905		SF	N14E16	2146
21 Aug	0915	0920	0921		SF	S06W31	2143
21 Aug	0942	0943	0951		SF	S06W31	2143
21 Aug	0957	1018	1036	C1.2			
21 Aug	1155	1159	1203	C1.2			
21 Aug	1319	1331	1342	M3.4	SF	N06E38	2149
21 Aug	1531	1533	1538		SF	N14E80	
21 Aug	1545	1550	1555	C2.0			
21 Aug	1856	1904	1920	C7.3	SF	N11E80	2149
21 Aug	2032	2032	2034		SF	N12E79	
21 Aug	2217	2239	2257	C1.2			
21 Aug	2354	0006	0010	C6.6	SF	N07E32	2148
22 Aug	0037	0054	0713		1F	N09E69	2149
22 Aug	0040	0040	0043		SF	N07E30	2148
22 Aug	0048	0054	0101	C2.6			2149
22 Aug	0156	0201	0205	C2.5			2149
22 Aug	0220	0226	0235	C4.1			2149
22 Aug	B0609	U0623	A0718	M1.2	1F	N12E73	2149
22 Aug	0752	0756	0758		SF	N09E69	2149
22 Aug	0804	0921	0940		2B	N10E71	2149
22 Aug	0830	0834	0841	C2.6			2149
22 Aug	0853	0856	0911		SF	N15W68	2139
22 Aug	0910	0923	0928	C8.5			2149
22 Aug	1013	1027	1046	C2.2	SF	N12E01	2146
22 Aug	1033	1037	1059		SF	N12E72	2149



Flare List

Date	Time			Optical			Rgn #
	Begin	Max	End	X-ray Class	Imp/Brtns	Location Lat CMD	
22 Aug	1053	1054	1056		SF	N12E01	2146
22 Aug	1204	1208	1211	C1.1	SF	N12E72	2149
22 Aug	B1230	U1252	1308	C6.4	1N	N12E71	2149
22 Aug	1310	1310	1316		SF	N12E71	2149
22 Aug	1318	1325	1333		SF	N12E71	2149
22 Aug	1540	1552	1602	C6.2	SN	N08W03	2146
23 Aug	0149	0156	0209	C3.5	1F	N10E62	2149
23 Aug	0704	0747	0756	C1.4	SF	N05E08	2148
23 Aug	0743	0805	0816		SF	N10E61	2149
23 Aug	B0833	U0837	A0841		SF	S07W56	2143
23 Aug	0916	0918	0919		SF	N10E60	2149
23 Aug	0954	0954	1006		SF	N08W10	2146
23 Aug	B1052	U1055	A1117		SF	N12W12	2146
23 Aug	B1101	U1102	A1105		SF	N13E56	2149
23 Aug	B1107	U1107	1109		SF	N14E56	2149
23 Aug	1119	1127	1138	C1.3	SF	N13E58	2149
23 Aug	B1151	U1200	A1206		SF	N13E58	2149
23 Aug	B1201	U1207	A1243		SF	N07E09	2148
23 Aug	1249	1318	1403		SF	N12E58	2149
23 Aug	1405	1411	1430		1F	N12E57	2149
23 Aug	1407	1413	1422	C2.2	SF	N12E56	2149
23 Aug	1557	1558	1619		SF	N12E57	2149
23 Aug	1613	1614	1618		SF	S07W61	2143
23 Aug	1719	1727	1731	C6.0	SF	N13W14	2146
23 Aug	1726	1726	1728		SF	N10E56	2149
23 Aug	1811	1817	1822	C2.9	SF	N10E54	2149
23 Aug	2226	2243	2254	C1.4			2149
24 Aug	0008	0016	0027	C1.6	SF	N08W20	2146
24 Aug	0049	0052	0058	B7.4	SF	S16E60	2150
24 Aug	0453	0502	0511	C5.5	1N	N12E45	2149
24 Aug	0722	0722	0729	C2.8	SF	S04W69	2143
24 Aug	0730	0736	0756		SF	N16W22	2146
24 Aug	0818	0818	0823		SF	N12E48	2149
24 Aug	B0907	U0909	0911		SF	N13E11	
24 Aug	0935	0946	0953	C1.4	SF	N13E48	2149
24 Aug	1031	1049	1108	C1.7	SF	N12E44	2149
24 Aug	1123	1135	1141		SF	N12E44	2149
24 Aug	1200	1217	1225	M5.9			2151



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
24 Aug	1200	1201	1205		SF	S06E71	2151
24 Aug	1202	1208	1229		SF	N12E43	2149
24 Aug	1202	1206	1231		SN	N07W26	2146
24 Aug	1208	1212	1310		2B	S07E75	2151
24 Aug	1242	1247	1257		SF	N12E43	2149
24 Aug	1720	1724	1729	C1.8			2143
24 Aug	1847	1923	1945	C2.2			2142
24 Aug	2313	2317	2319		SF	N10W30	2146



Region Summary

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	4							
Region 2135																							
06 Aug	N11E64		127	30	4	Cro	4	B															
07 Aug	N11E50		127	170	7	Dso	10	B					3										
08 Aug	N11E36		129	250	8	Dho	10	BG	2				1	1									
09 Aug	N12E22		130	240	9	Dso	15	BG	1				5										
10 Aug	N12E08		130	220	10	Dso	10	B					1										
11 Aug	N12W06		131	220	11	Eso	9	B															
12 Aug	N12W19		131	170	11	Eao	6	B															
13 Aug	N12W31		130	130	10	Cso	4	B					1										
14 Aug	N13W45		130	140	10	Cso	3	B															
15 Aug	N13W59		131	90	10	Cso	2	B															
16 Aug	N15W73		132	80	3	Hax	2	A															
17 Aug	N16W87		133	60	2	Hax	2	A															
									3	0	0	11	1	0	0	0	0						

Crossed West Limb.
Absolute heliographic longitude: 131

Region 2139																							
11 Aug	N14E68		56	100	10	Dso	2	B					1										
12 Aug	N14E55		57	120	9	Dso	13	B					3										
13 Aug	N13E42		57	120	9	Dsi	18	B					4										
14 Aug	N13E28		57	120	10	Dac	15	B					5										
15 Aug	N13E14		58	140	11	Eac	27	BG	2				11										
16 Aug	N14W00		59	130	10	Dac	17	BG	1				4										
17 Aug	N14W14		60	100	10	Cai	13	BG					1										
18 Aug	N13W24		57	60	10	Cso	9	B	1				2										
19 Aug	N14W39		57	50	5	Cao	5	B															
20 Aug	N15W49		54	30	9	Dao	3	B					1										
21 Aug	N15W61		53	10	9	Bxo	4	B															
22 Aug	N16W74		54	10	10	Bxo	3	B					1										
23 Aug	N16W88		54	plage																			
									4	0	0	33	0	0	0	0	0						

Crossed West Limb.
Absolute heliographic longitude: 59



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	4
Region 2141																
14 Aug	N15E60		25	30	4	Dao	9	B								2
15 Aug	N15E46		26	100	8	Dac	14	B								7
16 Aug	N16E32		27	120	9	Dac	8	BG								
17 Aug	N16E18		28	110	11	Eso	13	B								
18 Aug	N16E08		25	100	11	Esi	13	B								
19 Aug	N16W05		23	80	11	Esi	9	B								
20 Aug	N16W20		25	50	7	Csi	5	B								
21 Aug	N15W35		27	50	5	Cso	3	B								
22 Aug	N16W49		29	50	2	Hsx	1	A								
23 Aug	N16W63		29	50	1	Hsx	1	A								
24 Aug	N17W76		29	40	1	Hsx	1	A								
									0	0	0	9	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 23

Region 2142

14 Aug	N05E54		31	plage												
15 Aug	N05E40		32	plage												
16 Aug	N05E26		33	plage												
17 Aug	N05E12		34	plage												
18 Aug	N05W03		36	plage												
19 Aug	N05W18		37	plage												
20 Aug	N05W33		39	plage												
21 Aug	N05W48		41	plage												
22 Aug	N05W61		41	plage												
23 Aug	N05W76		42	plage												
24 Aug	N09W77		30	30	3	Cao	3	B	1							
									1	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 36



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 2143																							
14 Aug	S07E61		24	10	4	Bxo	3	B															
15 Aug	S07E47		25	10	4	Bxo	3	B															
16 Aug	S07E33		26	plage																			
17 Aug	S05E19		27	30	3	Cro	3	B					5										
18 Aug	S05E04		29	20	3	Cao	3	B															
19 Aug	S04W12		30	30	5	Dri	5	B					1										
20 Aug	S04W26		31	50	6	Dai	8	B															
21 Aug	S05W39		30	60	6	Dsi	15	B					3										
22 Aug	S05W53		33	80	6	Dac	22	B															
23 Aug	S06W66		32	120	6	Cai	9	B					2										
24 Aug	S04W80		33	70	7	Cao	6	B	2				1										
									2	0	0		12	0	0	0	0						

Still on Disk.

Absolute heliographic longitude: 29

Region 2144

14 Aug	S17W19		103	20	3	Cro	5	B														
15 Aug	S17W33		105	60	4	Cao	9	BG	2				6	1								
16 Aug	S17W47		106	130	8	Dai	8	BG	1				3									
17 Aug	S17W61		107	220	10	Dsi	5	BG					3									
18 Aug	S17W73		106	180	9	Dao	3	B					1									
19 Aug	S17W87		105	100	10	Dao	2	B														
									3	0	0		13	1	0	0	0					

Crossed West Limb.

Absolute heliographic longitude: 103

Region 2145

15 Aug	S27E15		57	20	3	Dro	4	B														
16 Aug	S27E01		58	10	5	Bxo	3	B														
17 Aug	S27W13		59	10	1	Axx	1	A														
18 Aug	S27W27		60	plage																		
19 Aug	S27W41		60	plage																		
20 Aug	S27W55		61	plage																		
21 Aug	S27W69		62	plage																		
22 Aug	S27W82		62	plage																		
									0	0	0		0	0	0	0	0					

Crossed West Limb.

Absolute heliographic longitude: 58



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 2146																							
16 Aug	N09E76	343	30	3	Hsx	1	A																
17 Aug	N09E62	344	80	2	Hax	2	A	1					1										
18 Aug	N10E48	345	90	2	Hax	1	A						6										
19 Aug	N08E35	343	150	2	Hsx	1	A						1										
20 Aug	N09E21	343	120	4	Csi	6	B	1					2										
21 Aug	N10E07	344	140	4	Cso	7	B						1										
22 Aug	N10W07	347	140	4	Cso	6	B	2					3										
23 Aug	N10W18	344	170	5	Cso	9	B	1					3										
24 Aug	N09W33	346	280	7	Dki	10	B	1					4										
								6	0	0	0	21	0	0	0	0	0	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 344

Region 2147

17 Aug	S09E73	333	30	3	Cao	2	B															
18 Aug	S09E61	332	60	3	Hax	3	A	1					1									
19 Aug	S10E46	332	50	2	Hax	2	A						2									
20 Aug	S09E33	331	40	3	Cao	2	B						1									
21 Aug	S10E19	332	20	3	Hax	2	A															
22 Aug	S08E06	334	10	2	Hax	1	A															
23 Aug	S10W08	334	10	1	Hax	1	A															
24 Aug	S08W24	337	plage																			
								1	0	0	0	2	2	0	0	0	0	0	0	0	0	0

Still on Disk.

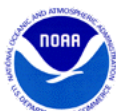
Absolute heliographic longitude: 334

Region 2148

20 Aug	N06E41	324	30	7	Dro	5	B	2					4									
21 Aug	N05E27	324	100	10	Dac	23	B	2					2									
22 Aug	N06E14	326	130	11	Eac	16	BG						2									
23 Aug	N07W00	326	110	10	Dao	12	B	1					2									
24 Aug	N07W13	326	50	10	Cao	10	B															
								6	0	0	0	11	0	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 326



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 2149																							
21 Aug	N12E77		276	70	3	Cso	4	B	1	1		2											
22 Aug	N12E63		277	180	12	Eac	9	BG	7	1		5	3	1									
23 Aug	N11E49		277	120	12	Eac	10	BG	5			11	2										
24 Aug	N11E35		278	190	13	Eac	16	BGD	3			6	1										
									16	2	0	24	6	1	0	0							

Still on Disk.
Absolute heliographic longitude: 278

Region 2150																							
22 Aug	S13E73		267	60	2	Hsx	1	A															
23 Aug	S13E59		266	130	2	Hsx	1	A															
24 Aug	S13E46		267	120	2	Hsx	1	A				1											
									0	0	0	1	0	0	0	0							

Still on Disk.
Absolute heliographic longitude: 267

Region 2151																							
23 Aug	S07E71		255	90	2	Hsx	1	A															
24 Aug	S07E58		255	110	2	Hax	1	A		1		1		1									
									0	1	0	1	0	1	0	0							

Still on Disk.
Absolute heliographic longitude: 255

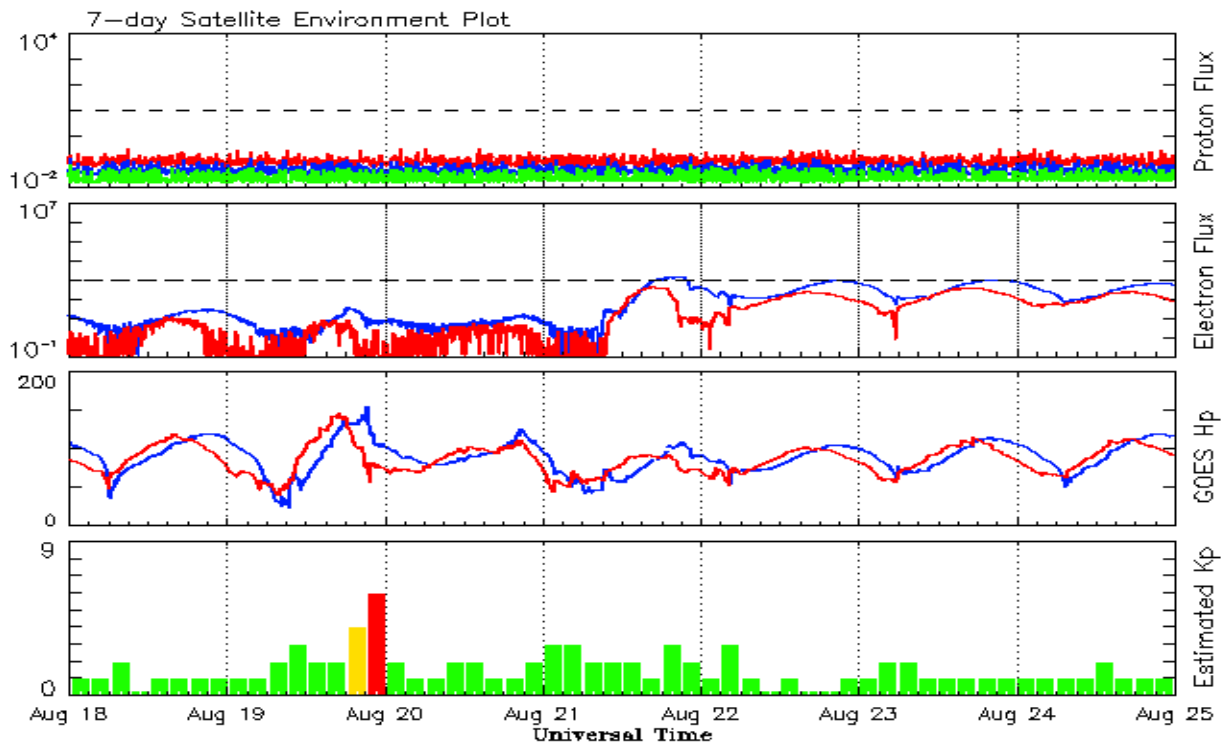


Recent Solar Indices (preliminary)
Observed monthly mean values

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
2012									
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	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			170.3		12	
March	141.1	91.9	0.65			149.9		6	
April	130.5	84.7	0.65			144.3		9	
May	116.8	75.2	0.64			130.0		7	
June	107.7	71.0	0.66			122.2		7	
July	113.6	72.5	0.64			137.3		5	

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 18 August 2014*

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.

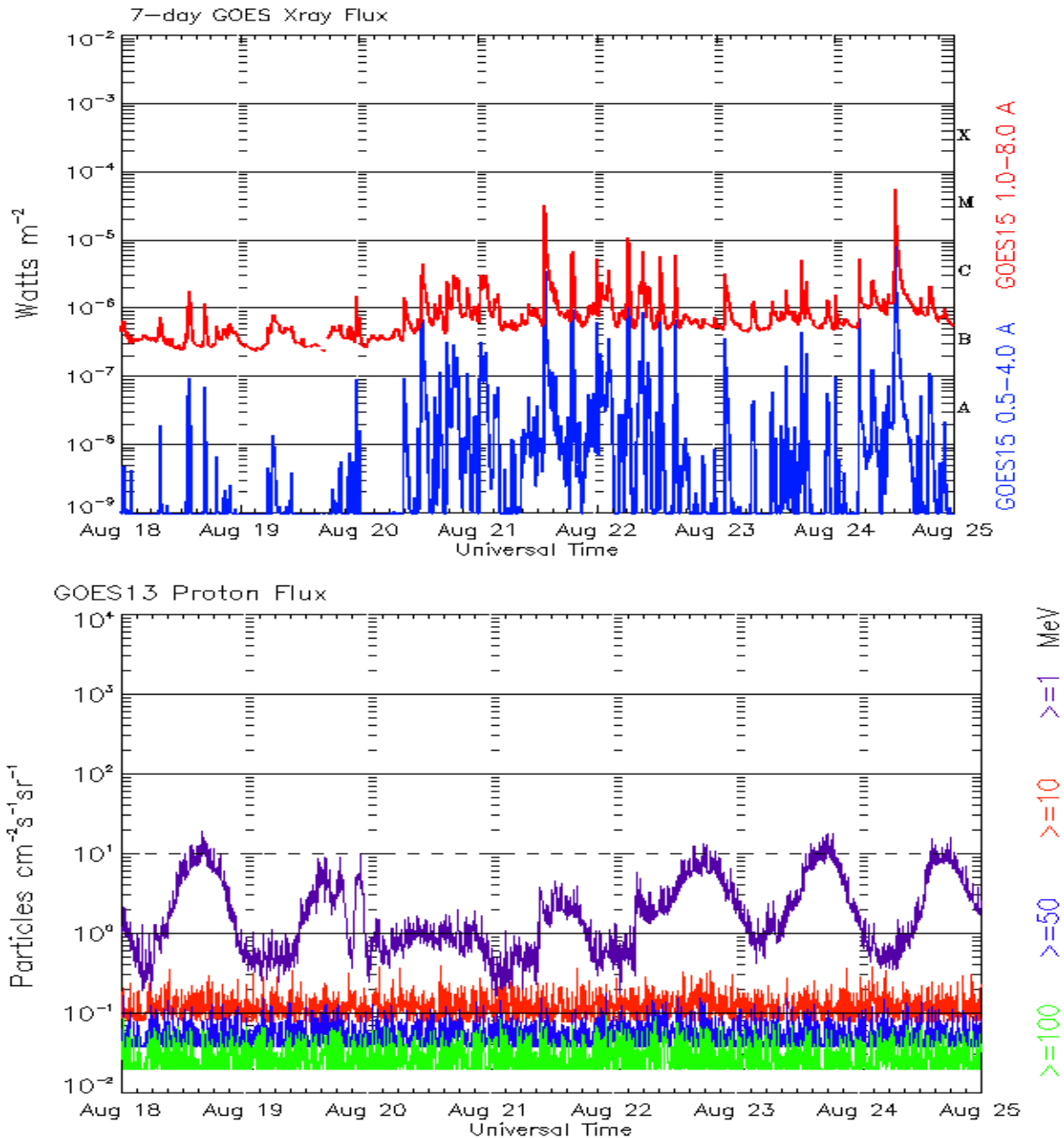
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 18 August 2014*

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.



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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