Solar activity ranged from low to moderate levels during the period. Low levels were reached on 15-17 September and again on 19-21 September with moderate activity observed on 18 September. A majority of the early C-class activity was observed from Regions 2158 (N16, L=087, class/area Dkc/440 on 11 Sep) and 2164 (S14, L=049, class/area Dai/090 on 14 Sep). The largest of these C-class events was a C7 X-ray event observed at 17/1948 UTC from Region 2158.

By 18 September, activity increased to moderate levels. At 18/0709 UTC, Region 2169 (N05, L=290, class/area Cso/060 on 17 Sep) produced a C6/Sf which was immediately followed by an impulsive M1/Sn (R1-Minor) at 18/0841 UTC from the same region. Associated with this event were lower frequency radio emissions in the form of a Type II sweep and 245 MHz burst (16,000 sfu). An associated CME was not discernable in LASCO or STEREO imagery with the M1 event.

19-21 September saw a return to low levels with C-class activity observed from Regions 2164, 2166 (N13, L=352, class/area Dao/060 on 14 Sep), 2171 (S10, L=264, class/area Eai/160 on 21 Sep) and 2172 (S11, L=242, class/area Ekc/320 on 21 Sep). The largest event during this 3-day period was a long-duration C5/1f flare at 21/1153 UTC from Region 2166. This region had decayed to plage on 20 September. Associated with this event was a CME off the NW limb, detected by LASCO C2 imagery, first visible at 21/1236 UTC. Potential geo-effectiveness of this CME was ongoing at the time of this writing.

Other activity of note during the period was a N-S oriented, 38 degree long filament eruption along a channel centered near N25E12. The filament was observed lifting off in SDO/AIA 304 imagery from 20/2348-21/0427 UTC. No discernable CME was apparent in LASCO or STEREO imagery with the filament eruption.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was normal levels.

Geomagnetic field activity ranged from quiet to minor storm levels. Mostly quiet levels were observed from 15 September through late on 18 September. By 18/1800 UTC, field activity increased to unsettled levels for six hours and further increased to active to minor storming through 21/0900 UTC. The field relaxed to unsettled to active levels through 21/2100 UTC when it became predominately quiet through the balance of the summary period. This period of increased activity was attributed to a combination of transient and negative coronal hole high speed stream (CH HSS) effects.

During the summary period, solar wind parameters, as observed at the ACE spacecraft, reflected the geomagnetic activity described above. ACE wind speeds began the period in the 450 km/s range and gradually decreased to near 350 km/s through early on 19 September. Wind speeds then increased to about 500 km/s by late on the 19th and further increased to 550 km/s by



midday on 20 September and remained elevated through midday on the 21st. Speeds then declined to end the summary period near 425 km/s.

The interplanetary magnetic field (IMF) Bt and Bz component followed a similar trend. Bt varied weakly from 3-7 nT through about 19/0600 UTC when an increase to 10-18 nT was observed for the next 9 hours or so. Bt gradually relaxed to vary between 4-8 nT through the remainder of the period. The Bz component generally did not vary much beyond -5 to +8 nT through the summary period. The exception was a period between 19/0400-1700 UTC when Bz varied between -13 nT to +17 nT.

Phi angle measurements indicated a predominately negative (towards) orientation with positive (away) swings from about 18/1800 UTC - 19/1700 UTC and again from 21/0300 UTC - 21/1700 UTC.

Space Weather Outlook 22 September - 18 October 2014

Solar activity is expected to be at predominately low levels with a chance for M-class activity and a slight chance for X-class activity through the outlook period. Regions currently on the disk with the potential for major activity include Regions 2171 and 2172. Old Regions 2155 (S19, L=110), 2157 (S15, L=099) and 2158 (N16, L=089), producers of M and X-class activity on their previous transit, are all due to return on or about 28-29 September.

No proton events are expected at geosynchronous orbit in the absence of major solar activity.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be normal to moderate levels through 25 September. Moderate to high levels are expected from 26 September to 03 October followed by a return to mostly normal levels through 18 October.

Geomagnetic field activity is expected to be at predominately quiet levels through the outlook period. Quiet to unsettled levels are expected on 23-24 September due to a solar sector boundary crossing followed by a co-rotating interaction region. Activity levels are expected to increase to unsettled to active from 25-30 September due to a series of positive polarity, equatorial CH HSSs. Unsettled to active levels are expected on 15-17 October due to a negative polarity CH HSS.



Daily Solar Data

	Radio	Sun	Sunspot	X-ray				Flares	S			
	Flux	spot	Area	Background		X-1	ay	_		Optio	cal	
Date	10.7cm	No.	(10 ⁻⁶ hemi.)	Flux	C	N.	X	S	5 1	. 2	3	4
15 September	133	92	350	B5.7	4	0	0	ç) (0	0	0
16 September	133	85	290	B5.5	5	0	0	3	3 (0	0	0
17 September	125	91	330	B6.1	7	0	0	5	5 (0	0	0
18 September	120	75	230	B5.3	4	1	0	5	5 (0	0	0
19 September	122	91	250	B4.8	4	0	0	2	2 (0	0	0
20 September	119	75	300	B4.5	2	0	0	() (0	0	0
21 September	124	72	590	B4.9	3	0	0	() 1	. 0	0	0

Daily Particle Data

	(pro	Proton Fluen otons/cm ² -da		Electron Fluence (electrons/cm ² -day -sr)							
Date	>1 MeV	>10 MeV	>100 MeV	>0.6 MeV	>2MeV	>4 MeV					
15 September	6.8e+05	2.5e+04	3.0e+03		1.1e+05						
16 September	1.0e+06	1.9e+04	2.9e+03		1.1e+05						
17 September	2.8e+05	1.3e+04	2.9e+03		2.8e+04						
18 September	1.9e + 05	1.1e+04	2.6e+03		4.4e+04						
19 September	7.5e + 04	1.2e+04	2.8e+03		2.7e+04						
20 September	6.9e + 04	1.2e+04	3.2e+03		2.5e+04						
21 September	3.7e+05	1.2e+04	3.1e+03		8.6e+04						

Daily Geomagnetic Data

	N	Middle Latitude		High Latitude	Estimated			
	I	Fredericksburg		College		Planetary		
Date	A K-indices		A	K-indices	A	K-indices		
15 September	2	0-0-0-1-2-1-1-1	1	0-0-0-0-1-1-1	3	1-1-1-1-1-1		
16 September	7	1-2-2-2-2-2	3	2-1-1-2-0-0-1-1	7	2-2-2-1-1-2-2		
17 September	4	2-0-0-1-2-1-2-2	2	1-1-0-0-0-1-1-2	6	3-1-0-0-1-2-2-2		
18 September	7	2-1-1-1-2-2-3	2	2-0-0-0-0-0-2-1	8	3-1-1-1-2-3-3		
19 September	23	4-5-4-3-4-3-3-2	32	3-5-5-4-5-4-4-3	22	4-5-4-3-3-4-3-2		
20 September	4	1-1-1-1-2-2-0-1	6	2-1-1-2-3-1-1-1	6	2-2-1-1-2-1-1		
21 September	7	1-3-2-2-2-2-1	3	1-2-1-1-0-1-1-1	7	2-3-2-1-1-1-2-1		

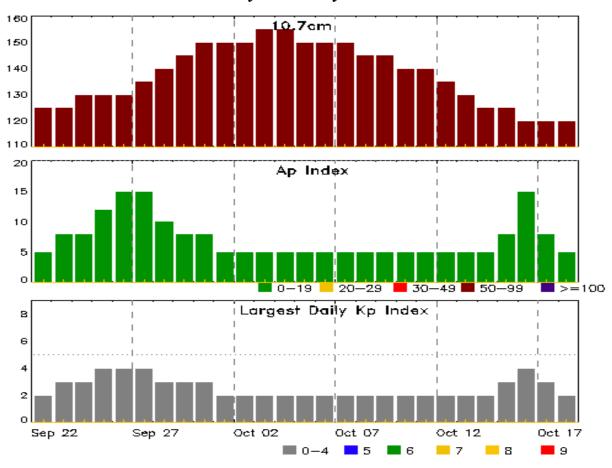


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
18 Sep 0909	ALERT: Type II Radio Emission	18/0842
19 Sep 0153	WARNING: Geomagnetic $K = 4$	19/0150 - 1100
19 Sep 0215	ALERT: Geomagnetic K = 4	19/0209
19 Sep 0522	WARNING: Geomagnetic $K = 5$	19/0520 - 1300
19 Sep 0550	ALERT: Geomagnetic K = 5	19/0548
19 Sep 0756	EXTENDED WARNING: Geomagnetic K = 4	19/0150 - 1600
19 Sep 1540	WARNING: Geomagnetic $K = 5$	19/1540 - 20/0500
19 Sep 1540	EXTENDED WARNING: Geomagnetic K = 4	19/0150 - 20/0800
19 Sep 2114	CANCELLATION: Geomagnetic K = 5	
21 Sep 0532	WARNING: Geomagnetic $K = 4$	21/0532 - 1400



Twenty-seven Day Outlook



Date	Radio Flux 10.7cm	Planetary A Index	Largest Kp Index	Date	Radio Flux 10.7cm	•	Largest Kp Index
Date	10.7011	A much	Kp macx	Date	10.70111	A much	Kp Hidex
22 Sep	125	5	2	06 Oct	150	5	2
23	125	8	3	07	150	5	2
24	130	8	3	08	145	5	2
25	130	12	4	09	145	5	2
26	130	15	4	10	140	5	2
27	135	15	4	11	140	5	2
28	140	10	3	12	135	5	2
29	145	8	3	13	130	5	2
30	150	8	3	14	125	5	2
01 Oct	150	5	2	15	125	8	3
02	150	5	2	16	120	15	4
03	155	5	2	17	120	8	3
04	155	5	2	18	120	5	2
05	150	5	2				



Energetic Events

		Time		X	-ray	_Opti	cal Informa	tion	P	eak	Sweep	Freq
			Half		Integ	Imp/	Location	Rgn	Rad	io Flux	Inter	sity
Date	Begin	Max	Max	Class	Flux	Brtns	Lat CMD	#	245	2695	II	IV
18 Sep	0837	0841	0853	M1.2	0.004	SN	N08E70	2169	16000	72	2	

Flare List

Date Begin Max End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn
		Brtns	Lat CMD	11
15.0 0000 0007 0005	C3.1		Eut Civib	#
15 Sep 0020 0027 0035	00.1	SF	S12W63	2157
15 Sep 0052 0056 0102		SF	N16W52	2158
15 Sep 0204 0224 0246	C2.9	SF	N16W52	2158
15 Sep 1310 1314 1318	B8.7	SF	N12W59	2158
15 Sep 1339 1339 1347		SF	S19W34	2163
15 Sep 1349 1350 1414		SF	N12W55	2158
15 Sep 1418 1421 1424		SF	N15E46	2166
15 Sep 1503 1520 1524	B8.1			
15 Sep 1811 1815 1817	C2.2	SF	N17W61	2158
15 Sep 2044 2051 2059	C2.3	SF	N11E43	2166
16 Sep 0012 0014 0018		SF	N17W61	2158
16 Sep B0853 U0853 0900		SF	N15W68	2158
16 Sep B0858 U0859 0905		SF	S19W45	2163
16 Sep 1538 1545 1547	C1.4			2158
16 Sep 1657 1702 1707	C1.6			
16 Sep 1906 1927 1934	C2.1			2158
16 Sep 2037 2043 2047	C2.0			2158
16 Sep 2351 2358 0008	C1.8			2164
17 Sep 0054 0056 0057		SF	S12W37	2164
17 Sep 0105 0110 0114	C1.2	SF	S12W37	2164
17 Sep 0132 0142 0150	C1.3	SF	S12W38	2164
17 Sep 0329 0334 0344	C2.6	SF	S15W40	2164
17 Sep 0727 0731 0734	C1.2			2164
17 Sep 0806 0812 0819	C1.4			2158
17 Sep 0941 U0944 A0948		SF	N12W81	2158
17 Sep 1926 1948 2013	C7.5			2158
17 Sep 2110 2139 2148	C3.5			2164
18 Sep 0106 0112 0120	C1.4			2168
18 Sep 0702 0709 0712	C6.4	SF	N05E70	2169
18 Sep 0837 0841 0853	M1.2	SN	N08E70	2169



Flare List

	Time			(Optical		
		Time		X-ray	Imp/	Location	Rgn
Date	Begin	Max	End	Class	Brtns	Lat CMD	#
18 Sep	1222	1224	1234		SF	N08E67	2169
18 Sep	1444	1444	1455		SF	S07E87	
18 Sep	1554	1558	1600	B9.0			
18 Sep	B1606	U1610	A1615		SF	S14E26	
18 Sep	1725	1730	1732	C3.4			2169
18 Sep	2111	2119	2130	C1.0			2158
19 Sep	0002	0007	0013	C1.2	SF	N13W09	2166
19 Sep	0917	0919	0926		SF	S09E76	
19 Sep	1349	1352	1356	C1.4			2164
19 Sep	1701	1706	1709	C1.0			2164
19 Sep	1727	1832	1858	C3.3			2171
20 Sep	1243	1254	1306	C1.1			2171
20 Sep	1708	1714	1723	C1.1			2172
21 Sep	0144	0151	0158	C1.2			2172
21 Sep	0707	0714	0725	C2.0			2172
21 Sep	1128	1145	1303	C5.2	1F	N11W40	2166



Region Summary

	Location	on	Sunspot Characteristics						Flares							
		Helio	Area	Extent	Spot	Spot	Mag	Σ	K-ray			O	ptica	ıl		
Date	Lat CMD	Lon 1	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4	
		Danis	1057													
		Kegia	on 1257													
17 Jul	N19W56	217	50	4	Dai	12	В				19					
18 Jul	N20W69	217	120	4	Dsi	12	В				1					
19 Jul	N20W83	218	240	10	Dso	3	В									
								0	0	0	20	0	0	0	0	
Crossec	l West Lim	b.														
Absolut	te heliograp	hic long	gitude: 2	17												
		Regio	on 2155													
03 Sep	S20E75	116	90	2	Hax		A	1	1							
04 Sep	S20E59	109	170	4	Dao	3	В	1								
05 Sep	S20E47	108	120	2	Dao	6	В	1			1					
06 Sep	S20E33	109	120	3	Dao	5	В									
07 Sep	S20E19	109	120	3	Cao	6	В									
08 Sep	S19E06	109	100	3	Cao	4	В									
09 Sep	S21W08	110	60	5	Dac	9	В									
10 Sep	S21W22	111	60	5	Cai	10	В									
11 Sep	S19W34	109	30	4	Bxo	5	В				2					
12 Sep	S19W48	108	10	3	Bxo	3	В									
13 Sep	S19W61	110	10	5	Bxo	2	В				1					
14 Sep	S19W75	111	plage													
15 Sep	S19W89	112	plage													
•								3	1	0	4	0	0	0	0	



	Location	on	Su	nspot C	haracte	ristics					Flares	5			
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			О	ptica	ıl	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Pogi	on 2156												
		_													
04 Sep	N15E56	112	10	4	Bxo	2	В								
05 Sep	N15E42	113	plage												
06 Sep	N15E28	114	plage												
07 Sep	N15E14	114	plage												
08 Sep	N15W00	115	plage												
09 Sep	N15W14	116	plage												
10 Sep	N15W28	117	plage												
11 Sep	N15W42	117	plage												
12 Sep	N15W56	118	plage												
13 Sep	N15W70	119	plage												
14 Sep	N15W84	120	plage												
								0	0	0	0	0	0	0	0
Crossec	l West Lim	b.													
Absolut	te heliograp	hic lor	ngitude: 1	15											
		Regi	on 2157												
04 Sep	S13E68	100	200	5	Dai	12	В	3			1				
05 Sep	S14E58	97	520	10	Dkc	14	BGD	4				1			
06 Sep	S14E44	98	540	12	Ekc	17	BGD	5	1		6	1			
07 Sep	S14E31	97	420	14	Ekc	27	BGD	5			6				
08 Sep	S14E17	98	450	12	Ekc	37	BGD	3			2				
09 Sep	S14E03	99	480	13	Ekc	39	BGD	1			1	1			
10 Sep	S14W11	100	460	13	Ekc	45	BGD	1			9				
11 Sep	S14W24	99	260	13	Ekc	34	BGD	1			2				
12 Sep	S14W38	99	250	13	Ekc	53	BG	3				1			
13 Sep	S14W51	100	220	13	Eai	26	BG	4			2	-			
14 Sep	S15W63	99	180	9	Dai	17	BG	1	1		1		1		
15 Sep	S15W74	97	50	4	Cai	5	BG	1	-		1		-		
16 Sep	S15W88	97	50	4	Cai	5	В	-			-				
			- 3	•		-	_	32	2	0	31	4	1	0	0



	Location	on	Sunspot Characteristics io Area Extent Spot Spot Mag					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray	·		O	ptica	ıl	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		ъ.	2150												
		Regio	on 2158												
04 Sep	N16E83	85	100	3	Hax	2	A								
05 Sep	N15E68	87	300	5	Cko	4	В								
06 Sep	N15E54	88	310	5	Dkc	7	BD								
07 Sep	N16E40	88	380	7	Dkc	10	BD				1				
08 Sep	N15E28	87	380	7	Dkc	10	BGD	1	1		10	1			
09 Sep	N15E14	88	420	7	Dkc	25	BGD				2				
10 Sep	N15W00	89	400	7	Dkc	22	BG			1	2		1		
11 Sep	N16W12	87	440	6	Dkc	23	BG				1				
12 Sep	N16W26	88	400	6	Dkc	20	BG	2			4				
13 Sep	N16W39	88	180	6	Cai	29	В	1			1				
14 Sep	N16W53	89	200	4	Dai	13	BG								
15 Sep	N16W66	89	170	4	Dsi	7	BG	2			5				
16 Sep	N16W81	90	110	3	Cao	2	BG	3			2				
17 Sep	N15W93	88	90	6	Cao	2	В	2			1				
_								11	1	1	29	1	1	0	0
Crossed	l West Limi	b.													
Absolut	te heliograp	hic lon	gitude: 8	9											
		Regio	on 2159												
05 Sep	S19E74	81	30	2	Cao	6	В								
06 Sep	S20E60	82	30	2	Cro	5	В				1				
07 Sep	S20E49	79	20	5	Cro	5	В	1							
08 Sep	S21E36	79	30	4	Cro	3	В				2				
09 Sep	S21E22	80	10	4	Bxo	5	В								
10 Sep	S21E08	81	10	2	Axx	3	A								
11 Sep	S21W09	84	10	1	Axx	2	A								
12 Sep	S21W23	85	plage												
13 Sep	S21W37	86	plage												
14 Sep	S21W51	87	plage												
15 Sep	S21W65	88	plage												
16 Sep	S21W79	88	plage												
	= = /		r5*					1	0	0	3	0	0	0	0



	Location	on	Su	nspot C	haracte	ristics]	Flares	5			
		Helio	Area	Extent	Spot	Spot	Mag	Х	K-ray			О	ptica	1	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regi	ion 2163												
07 Sep	S16E65	63	50	7	Cao	5	В								
08 Sep	S17E51	64	50	7	Cao	5	В								
09 Sep	S17E37	65	110	8	Dao	6	В								
10 Sep	S17E23	66	90	9	Dao	6	В								
11 Sep	S17E10	65	50	5	Cao	2	В	1							
12 Sep	S16W02	64	60	8	Cao	2	В								
13 Sep	S16W17	66	30	5	Hax	3	A								
14 Sep	S16W32	68	10	2	Hrx	3	A								
15 Sep	S15W44	67	10	2	Bxo	3	В				1				
16 Sep	S15W58	67	10	2	Bxo	3	В				1				
17 Sep	S15W72	68	plage												
18 Sep	S15W86	69	plage												
								1	0	0	2	0	0	0	0
	West Lim														
Absolut	e heliograp	hic lo	ngitude: 6	4											
		Regi	ion 2164												
11 Sep	S13E28	47	20	1	Cro	2	В								
12 Sep	S13E14	48	20	1	Cro	3	В								
13 Sep	S13E02	47	40	8	Dsi	16	В				1				
14 Sep	S14W13	49	90	9	Dai	15	BG								
15 Sep	S14W26	49	80	10	Dai	9	BG								
16 Sep	S13W40	49	80	11	Eao	5	В	1							
17 Sep	S13W53	48	70	10	Dac	6	В	5			4				
18 Sep	S13W66	48	90	10	Dao	8	В								
19 Sep	S12W81	50	60	10	Cao	3	В	2							
_								8	0	0	5	0	0	0	0



	Location	on	Sunspot Characteristics					Flares							
	Helio		Area	Extent	nt Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regi	on 2165												
11 Sep	S08E63	12	20	4	Cao	3	В								
12 Sep	S08E49	13	20	9	Cro	4	В								
13 Sep	S08E37	12	10	9	Bxo	2	В								
14 Sep	S08E19	12	plage												
15 Sep	S08E05	15	plage												
16 Sep	S08W03	12	10	2	Bxo	3	В								
17 Sep	S08W16	11	10	4	Bxo	2	В								
18 Sep	S08W30	13	plage												
19 Sep	S08W44	14	plage												
20 Sep	S08W58	15	plage												
21 Sep	S08W72	15	plage					0	0		0				
Still on Absolut	Disk. e heliograp	hic lor	ngitude: 1	2											
		Regi	on 2166												
11 Sep	N12E80	356	plage						2						
12 Sep	N12E66	356	30	1	Axx	2	A								
13 Sep	N13E61	348	30	11	Cro	5	В	1							
14 Sep	N13E44	352	60	10	Dao	11	В				2				
15 Sep	N12E28	355	40	7	Cao	7	В	1			2				
16 Sep	N12E13	356	30	3	Cao	7	BG								
17 Sep	N12W00	355	30	3	Cao	7	В								
18 Sep	N13W14	356	30	5	Cao	9	В								
19 Sep	N11W27	355	20	2	Dso	4	В	1			1				
20 Sep	N11W41	358	plage												
21 Sep	N11W55	358	plage					1				1			
C4:11 a.s.	~							4	2	0	5	1	0	0	0

Still on Disk. Absolute heliographic longitude: 355



,	Location	Su	inspot C	haracte	ristics		Flares								
		Helio	Area	Extent	Spot	Spot	Mag	X	-ray		Optical				
Date	Lat CMD	Lon 1	0 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regio	on 2167												
14 Sep	N07E50	346	10		Axx	1	A								
14 Sep 15 Sep	N07E30 N08E39	344	0	1	Axx	1	A								
16 Sep	N08E25	344	plage	1	ΠΛΛ	1	11								
17 Sep	N08E11	345	plage												
18 Sep	N08W03	346	plage												
19 Sep	N09W15	343	10	1	Axx	2	A								
20 Sep	N09W28	345	plage												
21 Sep	N09W42	345	plage												
•								0	0	0	0	0	0	0	0
Still on	Disk.														
	e heliograp	hic long	gitude: 3	46											
			_												
		Regio	on 2168												
17 Sep	S22E44	311	10	1	Bxo	1	В								
18 Sep	S21E30	313	20	5	Cao	5	В	1							
19 Sep	S22E17	313	20	4	Cso	7	В								
20 Sep	S22E04	313	10	1	Axx	2	A								
21 Sep	S22W10	313	plage												
								1	0	0	0	0	0	0	0
Still on	Disk.														
Absolut	e heliograp	hic long	gitude: 3	13											
		Regio	on 2169												
17 Com	N05E66	_		2	Cac	1	D								
17 Sep 18 Sep	N05E66 N05E53	290 289	60 50	2 6	Cso Cao	1 2	B B	2	1		3				
18 Sep 19 Sep	N05E33 N05E42	289	30	8	Cso	2	В	2	1		3				
20 Sep	N05E42 N05E26	291	30	2	Hax	2	A								
20 Sep 21 Sep	N05E20 N05E14	289	40	7	Cao	2	В								
21 PCD	11031514	20)	40	,	Cao	2	D	2	1	0	3	0	0	0	0
Still on	Disk.							-	•	3	٥	,	J	J	J

Still on Disk. Absolute heliographic longitude: 289



-	Locatio	Su	nspot C	haracte	ristics		Flares								
		Helio	Area	Extent	Spot	Spot	Mag	X	X-ray			0	ptica	.1	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regio	on 2170												
17 Sep	N07E64	290	60	3	Hsx	2	A								
18 Sep	N10E51	291	40	1	Hax	1	A								
19 Sep	N09E40	290	30	2	Hax	1	A								
20 Sep	N11E27	290	50	2	Hax	2	A								
21 Sep	N11E13	290	50	2	Hax	1	A								
								0	0	0	0	0	0	0	0
Still on Absolut	Disk. e heliograp	hic lon	gitude: 2	90											
		Regio	on 2171												
19 Sep	S09E65	263	80	6	Dso	2	В	1							
20 Sep	S10E53	264	160	8	Dao	7	В	1							
21 Sep	S10E39	264	160	11	Eai	8	BG								
•								2	0	0	0	0	0	0	0
Still on	Disk.														
Absolut	e heliograp	hic lon	gitude: 2	64											
		Regio	on 2172												
20 Sep	S09E75	242	30	1	Hrx	1	A	1							
21 Sep	S11E63	240	320	11	Ekc	10	BD	2							
•								3	0	0	0	0	0	0	0
Still on Absolut	Disk. e heliograp	hic lon	gitude: 2	40											
	0 1														
		Regio	on 2173												
20 Sep	S15E65	252	20	1	Hrx	1	A								
21 Sep	S15E51	252	20	1	Hrx	1	A								
								0	0	0	0	0	0	0	0
Still on Absolut	Disk. e heliograp	hic lon	gitude: 2	52											

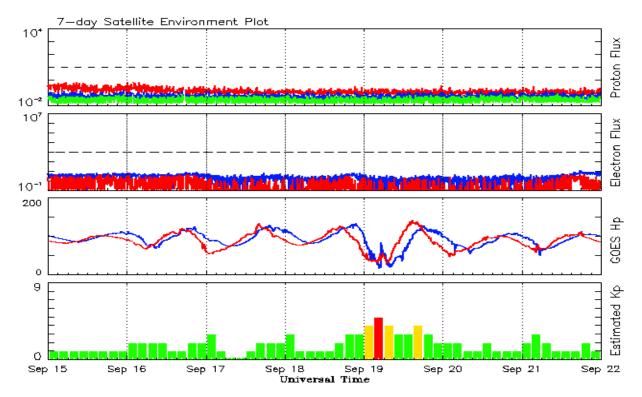


Recent Solar Indices (preliminary) Observed monthly mean values

		;	Sunspot Nu			Radio	Flux	Geomagnetic			
	Observed values		Ratio	Ratio Smooth		Penticton	Smooth	Planetary	Smooth		
Month	SEC	RI	RI/SEC	SEC	RI	10.7 cm	Value	Ap	Value		
				,	2012						
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	119.5	78.4	170.3	138.6	12	6.9		
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			
August	106.2	74.7	0.70			124.7		9			
			2.,0			- -					

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 15 September 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.

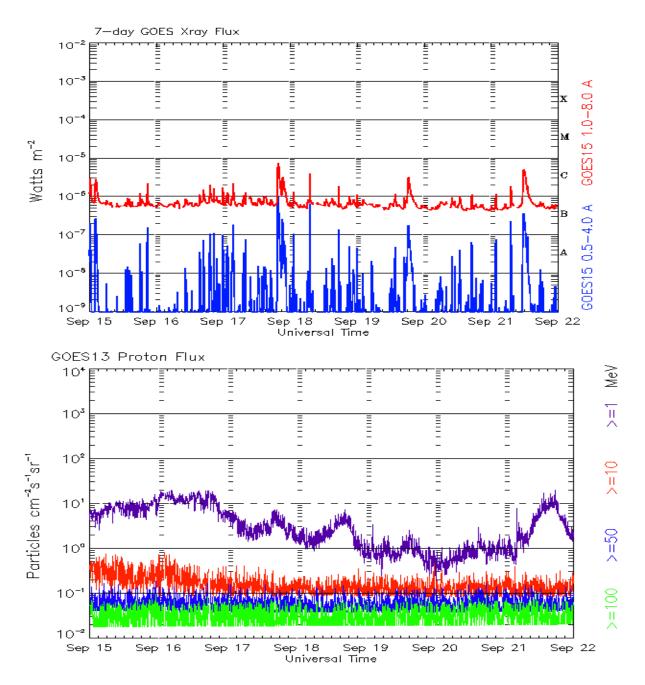
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 15 September 2014

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

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

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