

Solar activity was at very low levels from 11-14 July with only a few simple sunspot regions. Region 2565 (N05, L=175, class/area Cko/350 on 17 Jul) rotated onto the east limb on 11 July as a simple Hsx spot class with a simple alpha magnetic class. By late on 14 July, another spot group began to emerge behind Region 2565 and was numbered 2567 (N05, L=165, class/area Dhi/330 on 17 Jul). Region 2567 quickly grew to over 300 millionths in area and was initially classified as a beta-gamma-delta magnetic group before some magnetic simplification occurred on 16 July. The region was downgraded to a beta-gamma magnetic class for the remainder of the period. Region 2567 became the most active region during 15-17 July producing 13 C-class flares. However, the close proximity of the two regions, as well as an active inversion line between the two, resulted in several flares to be attributed to Region 2565 on 17 July. The first was a long duration C1/Sf flare at 17/0803 UTC which was responsible for two CMEs observed in SOHO/LASCO C2 imagery beginning at 17/1124 UTC and 17/1248 UTC. The first was a faint asymmetric halo CME while the second was directed mostly off the east limb. Initial WSA-Enlil model output of the events showed a slow transit with effects possible on 21 July. The largest flare of the period, however, was a C6 at 17/2335 UTC which also occurred on the inversion line and was subsequently attributed to Region 2565.

No proton events were observed at geosynchronous orbit.

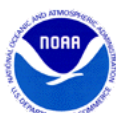
The greater than 2 MeV electron flux at geosynchronous orbit reached high levels throughout the period with a maximum flux of 5,512 pfu observed at 17/1630 UTC.

Geomagnetic field activity ranged from quiet to G1 (Minor) storm levels. The majority of the period was under the influence of high speed solar wind streams from a large, positive polarity, polar connected coronal hole as well as an isolated, positive polarity coronal hole. Solar wind speeds reached highs around 550 km/s early on 11 July, 650 km/s late on 12 July, and 700 km/s early on 15 July before finally decreasing to around 440 km/s by the end of the period. Total field during the period only managed to reach a maximum of 9 nT at 12/0552 UTC. Prolonged periods of southward Bz reaching -8 nT on 12 July and -6 nT on 14 July resulted in periods of G1 (Minor) storm levels on 12 July and active periods on 14 July. The rest of the period was at quiet to unsettled levels with quiet conditions observed on 17 July.

Space Weather Outlook **18 July - 13 August 2016**

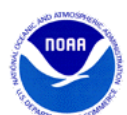
Solar activity is expected to be at low levels with a chance for M-class (R1-R2, Minor-Moderate) flares from 18-24 July as Regions 2565 and 2567 transit across the visible disk. Very low levels are expected for 25 July-04 August. A return to low levels with a chance for M-class flaring is expected for 05-13 August with the return of Regions 2565 and 2567.

No proton events are expected at geosynchronous orbit.



The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at high levels on 18-19, 23-27 July, and again on 05-13 August due to recurrent CH HSS activity. Normal to moderate levels are expected for the remaining forecast period.

Geomagnetic field activity is expected to be at unsettled to active levels on 19-20, 22-24, 28, 30 July and on 03-08, 10-11 August with G1 (Minor) storm levels likely on 03-04 and 08 August due to recurrent CH HSS activity. A CME associated with the 17 July long-duration C1 flare is likely to arrive early on 21 July causing unsettled to active levels.



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
11 July	95	62	240	B2.0	0	0	0	1	0	0	0	0
12 July	92	63	300	B1.8	0	0	0	4	0	0	0	0
13 July	97	54	240	B1.7	0	0	0	3	0	0	0	0
14 July	95	54	250	B1.7	0	0	0	0	0	0	0	0
15 July	102	73	510	B2.4	1	0	0	12	0	0	0	0
16 July	107	47	530	B3.5	11	0	0	14	0	0	0	0
17 July	105	51	680	B3.4	4	0	0	5	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
	11 July	2.4e+05	1.2e+04	3.0e+03	1.1e+08	
12 July	5.0e+05	1.2e+04	2.8e+03	3.4e+07		
13 July	4.9e+05	1.2e+04	2.8e+03	1.6e+08		
14 July	7.6e+05	1.2e+04	2.9e+03	1.6e+08		
15 July	6.2e+05	1.2e+04	2.9e+03	8.8e+07		
16 July	6.9e+05	1.2e+04	3.0e+03	1.5e+08		
17 July	3.6e+05	1.3e+04	3.3e+03	2.1e+08		

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	11 July	11	2-3-1-2-2-2-4-3	19	3-3-1-5-5-2-2-2	11
12 July	18	3-4-4-4-2-2-3-3	33	3-5-6-5-5-2-2-2	21	3-5-5-4-2-2-3-3
13 July	7	3-2-1-2-2-2-1-2	11	3-2-3-3-3-2-1-2	8	3-3-2-2-2-1-1-2
14 July	16	2-3-5-4-2-2-1-3	21	2-4-5-5-2-3-2-2	12	2-3-4-4-2-2-2-2
15 July	10	2-3-3-2-2-2-2-3	23	3-4-4-6-3-2-2-2	11	2-3-3-3-1-2-2-3
16 July	8	3-1-1-2-3-2-1-2	15	2-2-2-2-6-2-0-1	8	3-2-1-2-3-2-1-2
17 July	10	2-2-1-3-3-2-2-3	10	1-2-0-4-4-2-1-1	7	2-2-1-2-2-1-1-2

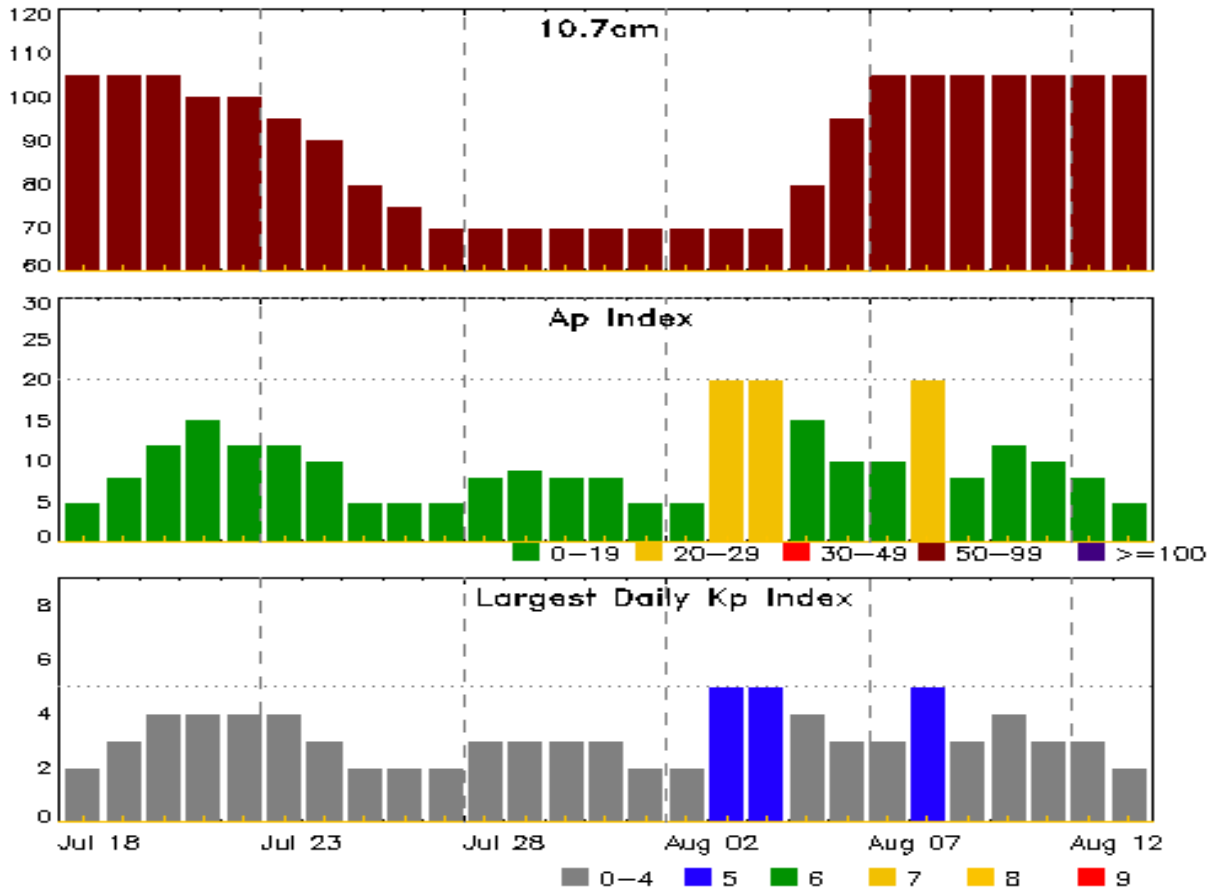


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
11 Jul 1406	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	09/1400
12 Jul 0143	WARNING: Geomagnetic K = 4	12/0140 - 0700
12 Jul 0423	ALERT: Geomagnetic K = 4	12/0421
12 Jul 0432	WARNING: Geomagnetic K = 5	12/0432 - 0900
12 Jul 0434	EXTENDED WARNING: Geomagnetic K = 4	12/0140 - 1300
12 Jul 0500	ALERT: Geomagnetic K = 5	12/0500
12 Jul 0856	EXTENDED WARNING: Geomagnetic K = 5	12/0432 - 1500
12 Jul 0857	EXTENDED WARNING: Geomagnetic K = 4	12/0140 - 1800
12 Jul 0905	ALERT: Geomagnetic K = 5	12/0859
12 Jul 1605	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	09/1400
12 Jul 1755	EXTENDED WARNING: Geomagnetic K = 4	12/0140 - 13/0600
13 Jul 0546	EXTENDED WARNING: Geomagnetic K = 4	12/0140 - 13/1300
13 Jul 1021	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	09/1400
14 Jul 0615	WARNING: Geomagnetic K = 4	14/0614 - 1300
14 Jul 0616	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	09/1400
14 Jul 0710	ALERT: Geomagnetic K = 4	14/0710
14 Jul 1257	EXTENDED WARNING: Geomagnetic K = 4	14/0614 - 2300
14 Jul 2256	EXTENDED WARNING: Geomagnetic K = 4	14/0614 - 15/1000
15 Jul 0942	EXTENDED WARNING: Geomagnetic K = 4	14/0614 - 15/2359
15 Jul 1129	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	09/1400
16 Jul 1035	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	09/1400
17 Jul 1001	CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu	09/1400



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
18 Jul	105	5	2	01 Aug	70	5	2
19	105	8	3	02	70	5	2
20	105	12	4	03	70	20	5
21	100	15	4	04	70	20	5
22	100	12	4	05	80	15	4
23	95	12	4	06	95	10	3
24	90	10	3	07	105	10	3
25	80	5	2	08	105	20	5
26	75	5	2	09	105	8	3
27	70	5	2	10	105	12	4
28	70	8	3	11	105	10	3
29	70	9	3	12	105	8	3
30	70	8	3	13	105	5	2
31	70	8	3				



Energetic Events

Date	Time			X-ray	Optical Information			Peak		Sweep Freq	
	Begin	Max	Half	Class	Integ Flux	Imp/ Brtns	Location Lat CMD	Rgn #	Radio Flux		Intensity
			Max						245	2695	II

No Events Observed

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
	Begin	Max	End				
11 Jul	2127	2133	2137	B9.4	SF	N10E44	2564
12 Jul	0905	0905	0907		SF	S08E18	2562
12 Jul	1059	1103	1108	B3.9			2565
12 Jul	1310	1314	1322		SF	N06E70	2565
12 Jul	1326	1338	1345		SF	N06E70	2565
12 Jul	1607	1618	1628		SF	N06E68	2565
13 Jul	0653	0718	0732		SF	N06E59	2565
13 Jul	1440	1444	1449	B4.3	SF	S07E02	2562
13 Jul	1508	1511	1515		SF	S09E01	2562
13 Jul	1948	2102	2133	B8.7			2565
14 Jul	2135	2138	2140	B3.1			2565
15 Jul	0054	0055	0057		SF	N04E44	
15 Jul	0223	0228	0232	B3.9	SF	N04E43	2565
15 Jul	0328	0332	0334		SF	N04E43	
15 Jul	0351	0354	0356	B5.9			2565
15 Jul	0506	0512	0514	B7.4	SF	N06E41	2567
15 Jul	B0623	U0655	A0705		SF	N07E39	2567
15 Jul	B0823	U0824	A0831		SF	N07E32	2565
15 Jul	0921	0923	0932		SF	N05E38	2567
15 Jul	1248	1259	1323		SF	N05E36	2567
15 Jul	1405	1406	1417		SF	N05E36	2567
15 Jul	1423	1426	1429	B5.3			2567
15 Jul	1507	1511	1514	C2.0	SF	N05E35	2567
15 Jul	1642	1645	1648	B7.9	SF	N05E34	2567
15 Jul	1712	1715	1717	B7.7			2567
15 Jul	1830	1833	1837	B7.1			2567
15 Jul	B2205	U2209	2222		SF	N05E30	2567
16 Jul	0028	0034	0038	C2.1	SF	N05E30	2567
16 Jul	0113	0119	0123	C1.0	SF	N05E29	2567
16 Jul	0129	0131	0149		SF	N05E29	2567
16 Jul	0200	0249	0258	C1.6	SF	N05E28	2567



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
16 Jul	0246	0250	0252	C1.7			2567
16 Jul	0300	0305	0308	C1.5	SF	N05E28	2567
16 Jul	0339	0343	0350	B8.8	SF	N05E28	2567
16 Jul	0441	0447	0515		SF	N05E28	2567
16 Jul	0525	0529	0536	B9.0			2567
16 Jul	0540	0544	0548	C2.0			2567
16 Jul	0557	0600	0603	C1.1			2567
16 Jul	0657	0704	0707	C6.8	SN	N06E26	2567
16 Jul	0746	0749	0756	B7.7			2567
16 Jul	0755	0755	0756		SF	N09W17	2564
16 Jul	0817	0823	0827	C1.5			2567
16 Jul	0919	0945	0949	C1.0			2567
16 Jul	1007	1009	1012		SF	N07E24	2567
16 Jul	1016	1016	1021		SF	N07E24	2567
16 Jul	1026	1033	1038	C1.1			2567
16 Jul	1254	1259	1305	B9.3			2567
16 Jul	1352	1358	1402	B6.9			2567
16 Jul	1436	U1439	A1524		SF	N06E22	2567
16 Jul	1618	1619	1627		SF	N07E14	2567
16 Jul	2100	2103	2155		SF	N05E11	2565
17 Jul	0136	0140	0143	C1.3	SF	N04E17	2567
17 Jul	0536	0803	1126	C1.4	SF	N07E15	2565
17 Jul	B1008	U1008	A1012		SF	N07E14	2567
17 Jul	B1417	U1502	A1510		SF	N07E15	2565
17 Jul	1634	1710	1728	C1.0	SF	N02E02	2565
17 Jul	1859	1915	1926	B8.4			2657
17 Jul	2131	2335	0001	C6.6			2565



Region Summary

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

Region 2559

05 Jul	N10W20	346	10	2	Bxo	2	B										
06 Jul	N10W34	347	plage														
07 Jul	N10W48	348	plage														
08 Jul	N10W62	348	plage														
09 Jul	N10W76	349	plage														
10 Jul	N10W90	350	plage														
								0	0	0	0	0	0	0	0	0	

Crossed West Limb.

Absolute heliographic longitude: 346

Region 2560

05 Jul	S08E55	270	10	1	Axx	1	A										
06 Jul	S08E42	270	10	1	Axx	1	A										
07 Jul	S08E28	272	plage														
08 Jul	S08E14	272	plage								1						
09 Jul	S08W00	273	plage														
10 Jul	S08W14	274	plage														
11 Jul	S08W28	275	plage														
12 Jul	S08W42	276	plage														
13 Jul	S08W56	276	plage														
14 Jul	S08W70	277	plage														
15 Jul	S08W84	278	plage														
								0	0	0	1	0	0	0	0	0	

Crossed West Limb.

Absolute heliographic longitude: 273

Region 2561

07 Jul	S16W45	344	30	6	Cro	4	B	1			2						
08 Jul	S16W59	345	20	5	Cro	5	B										
09 Jul	S16W72	345	10	6	Bxo	3	B										
10 Jul	S16W85	345	plage														
								1	0	0	2	0	0	0	0	0	

Crossed West Limb.

Absolute heliographic longitude: 344



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 2562																							
07 Jul	S05E74	225	30	1	Cao	1	B																
08 Jul	S06E59	227	50	5	Cao	5	B																
09 Jul	S06E46	227	60	6	Cai	8	B																
10 Jul	S05E33	227	50	3	Cao	5	B																
11 Jul	S06E19	226	30	4	Cri	7	B																
12 Jul	S06E05	229	50	4	Hax	8	A						1										
13 Jul	S06W09	229	30	4	Hrx	5	A						2										
14 Jul	S06W20	227	10	4	Axx	4	A																
15 Jul	S06W35	229	10	3	Axx	3	A																
16 Jul	S06W48	229	plage																				
17 Jul	S06W61	228	plage																				
													0	0	0	3	0	0	0	0			

Still on Disk.

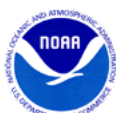
Absolute heliographic longitude: 229

Region 2563

08 Jul	N19E56	230	10	4	Bxo	4	B															
09 Jul	N19E42	231	20	5	Cro	6	B							2								
10 Jul	N19E32	228	20	8	Bxo	4	B															
11 Jul	N19E19	227	20	8	Bxo	6	B															
12 Jul	N19E05	229	20	8	Bxo	6	B															
13 Jul	N19W09	228	10	6	Bxo	2	B															
14 Jul	N20W18	225	10	1	Axx	2	A															
15 Jul	N20W32	226	plage																			
16 Jul	N20W46	227	plage																			
17 Jul	N20W60	227	plage																			
														0	0	0	2	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 229



Region Summary - continued

Date	Location		Sunspot Characteristics				Flares										
	Lat CMD	Lon	Helio 10 ⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical						
								C	M	X	S	1	2	3	4		
Region 2564																	
08 Jul	N10E79	207	40	1	Hsx	1	A	1									
09 Jul	N09E63	210	80	5	Cao	6	B	1				9					
10 Jul	N09E51	209	120	8	Dai	7	BG	1				2		1			
11 Jul	N09E38	207	70	9	Dao	8	B					1					
12 Jul	N09E24	210	60	3	Hax	8	A										
13 Jul	N09E10	210	30	3	Cro	6	B										
14 Jul	N09W04	211	10	5	Axx	5	A										
15 Jul	N09W18	212	plage														
16 Jul	N09W32	213	plage									1					
17 Jul	N09W46	213	plage														
								3	0	0	13	0	1	0	0		

Still on Disk.

Absolute heliographic longitude: 211

Region 2565

11 Jul	N04E71	175	120	5	Hsx	1	A										
12 Jul	N04E58	174	170	3	Hkx	1	A					3					
13 Jul	N04E44	176	170	4	Hax	1	A					1					
14 Jul	N04E33	174	220	5	Cao	3	B										
15 Jul	N05E18	176	290	4	Cho	4	B					1					
16 Jul	N04E06	175	320	6	Dho	5	B					1					
17 Jul	N05W08	175	350	6	Cko	6	B	3				3					
								3	0	0	9	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 175

Region 2566

15 Jul	N10E15	179	0		Axx	1	A										
16 Jul	N10E01	180	plage														
17 Jul	N10W13	180	plage														
								0	0	0	0	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 180



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	4							
Region 2567																							
15 Jul	N05E28	166	190	6	Dac	13	BGD	1				8											
16 Jul	N04E15	166	200	8	Dsc	10	BG	11				12											
17 Jul	N05E02	165	330	8	Dhi	14	BG	1				2											
								13	0	0	0	22	0	0	0	0	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 165

Region 2568																							
15 Jul	S15E39	155	20	3	Dro	2	B																
16 Jul	S16E24	157	10	3	Bxo	2	B																
17 Jul	S13E10	157	0		Axx	1	A																
								0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 157

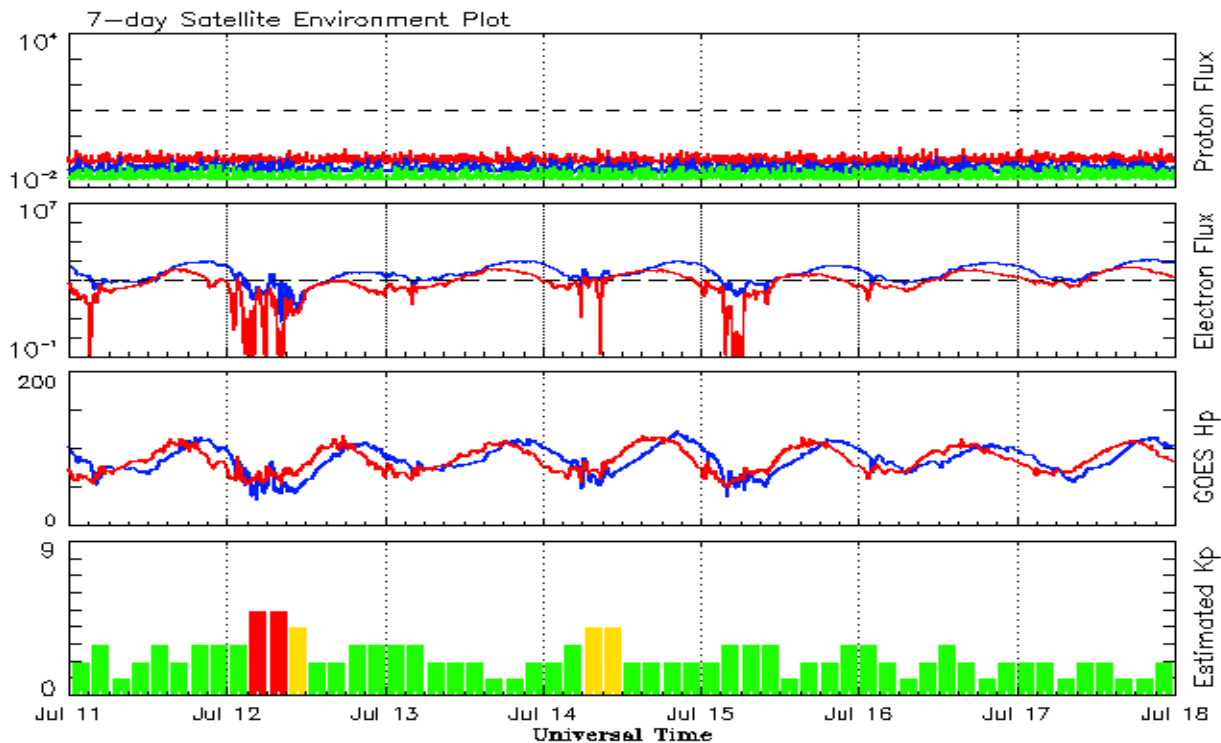


Recent Solar Indices (preliminary)
Observed monthly mean values

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
2014									
July	113.6	60.1	0.64	120.4	67.6	137.3	145.2	5	8.8
August	106.2	64.1	0.70	115.1	65.0	124.7	142.8	9	8.9
September	127.4	78.0	0.69	107.4	61.1	146.1	140.1	11	9.3
October	92.0	54.0	0.66	101.7	58.4	153.7	138.4	10	9.9
November	101.8	62.2	0.69	97.9	56.8	155.3	137.4	10	10.1
December	120.0	67.7	0.65	95.2	55.3	158.7	137.0	12	10.5
2015									
January	101.2	55.8	0.66	92.1	53.6	141.7	135.8	10	11.0
February	70.6	40.0	0.63	88.3	51.7	128.8	133.8	10	11.5
March	61.7	32.7	0.62	84.2	49.3	126.0	131.2	17	12.0
April	72.5	45.2	0.75	80.5	47.3	129.2	127.3	12	12.4
May	83.0	53.3	0.71	77.5	45.7	120.1	123.3	9	12.7
June	77.3	39.9	0.53	73.1	43.3	123.2	119.5	14	13.0
July	68.4	39.5	0.58	68.2	41.0	107.0	116.0	10	13.1
August	61.6	38.6	0.63	65.5	39.8	106.2	113.3	16	13.1
September	72.5	47.2	0.65	64.0	39.5	102.1	110.8	16	12.8
October	59.5	38.2	0.62	61.8	38.6	104.1	107.9	15	12.5
November	61.8	37.3	0.61	59.0	36.8	109.6	105.3	13	12.5
December	54.1	34.8	0.64	55.1	34.7	112.8	102.5	15	12.5
2016									
January	50.4	34.2	0.67			103.5		10	
February	56.0	33.8	0.61			103.5		10	
March	40.9	32.5	0.80			91.6		11	
April	39.2	22.8	0.58			93.4		10	
May	48.9	31.3	0.64			93.1		12	
June	19.3	12.5	0.65			81.9		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 11 July 2016*

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.

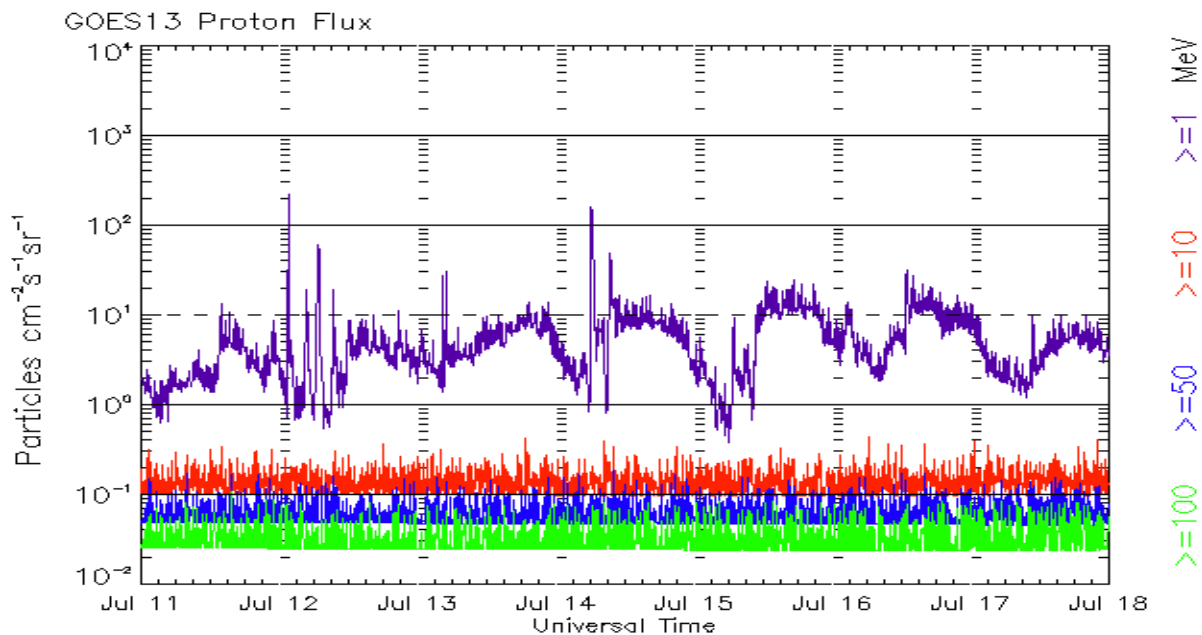
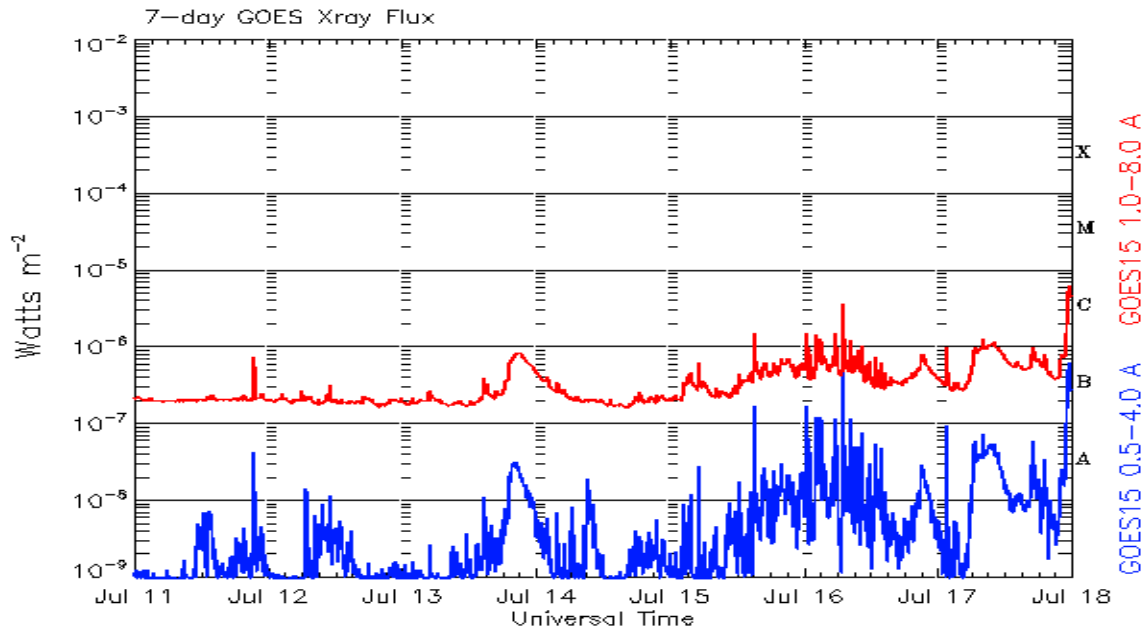
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 11 July 2016*

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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