

Solar activity began the period at low levels with a C3/Sf flare at 30/1318 UTC from Region 2106 (N14, L=260 class/area Dao/140 on 04 Jul). Moderate levels were reached on 01 Jul when Region 2106 produced an M1 at 01/1123 UTC. Despite the vast areal coverage and magnetic complexity of Regions 2104 (S12, L=269 class/area Dkc/470 on 02 Jul), 2106, 2107 (S20, L=261 class/area Dko/340 on 02 Jul), 2108 (S08, L=239 class/area Eki/620 on 06 Jul) and 2109 (S08, L=219 class/area Ekc/830 on 05 Jul) solar activity remained at low levels for the rest of the period. A filament eruption centered near S43E59 was observed lifting off in SDO/AIA 193 imagery between 05/1800 - 06/0300 UTC but the subsequent coronal mass ejection was determined to be well south of the Sun-Earth line and is not expected to be geoeffective.

No proton events were observed at geosynchronous orbit.

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

Geomagnetic field activity was at mostly quiet levels throughout the week with the exception of two isolated unsettled periods on 30 Jun between 0000 - 0300 UTC and 03 July between 0900 - 1200 UTC.

Space Weather Outlook **07 July - 02 August 2014**

Solar activity is likely to be moderate through 15 Jul as Regions 2104, 2106, 2107, 2108 and finally 2109 move across the visible disk and then rotate around the west limb. Low levels are expected with only a chance for moderate activity from 16 - 24 Jul. Activity is expected to increase on 25 Jul with the anticipated return of these large and magnetically complex regions. Moderate activity is likely throughout the remainder of the period.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal levels throughout the period.

Geomagnetic field activity is expected to be quiet from 07 - 08 Jul. Quiet to unsettled conditions are expected from 09 - 17 July with active periods possible on 15 Jul due to effects from a series of coronal hole high speed streams (CH HSS). Mostly quiet conditions are expected for the remainder of the period with the exception of 26 Jul, when a recurrent weak CH HSS is expected to increase activity to unsettled 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	4
30 June	141	124	750	B7.7	6	0	0	8	0	0	0	0
01 July	152	154	850	B9.6	5	1	0	14	1	0	0	0
02 July	169	180	1260	B8.9	1	0	0	24	1	0	0	0
03 July	178	179	1430	B8.8	2	0	0	23	0	0	0	0
04 July	188	199	1830	C1.0	2	0	0	27	1	0	0	0
05 July	193	213	2090	B9.6	3	0	0	11	0	0	0	0
06 July	201	256	2230	C1.2	5	0	0	14	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
	30 June	5.9e+04	1.0e+04	2.5e+03		1.3e+05
01 July	4.5e+04	1.0e+04	2.5e+03		1.9e+05	
02 July	6.3e+04	1.0e+04	2.6e+03		3.2e+05	
03 July	7.7e+04	1.0e+04	2.4e+03		2.4e+05	
04 July	7.6e+04	9.9e+03	2.5e+03		1.8e+05	
05 July	8.5e+04	1.0e+04	2.5e+03		2.6e+05	
06 July	8.8e+04	1.0e+04	2.6e+03		2.7e+05	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	30 June	7	3-1-1-2-2-2-2-2	4	3-2-1-0-0-1-1-0	6
01 July	6	1-2-1-2-2-3-1-0	3	1-2-0-0-0-2-1-0	4	1-2-1-1-1-1-1-1
02 July	5	0-1-1-2-2-2-2-1	4	0-1-1-1-3-1-1-0	5	1-1-1-2-1-2-1-1
03 July	8	2-2-2-3-2-1-2-2	18	1-3-4-6-3-1-0-0	6	2-2-2-3-2-1-1-1
04 July	6	1-0-2-2-3-1-2-1	3	2-2-2-1-1-0-0-0	5	2-1-2-2-2-0-0-1
05 July	5	0-0-1-2-2-1-3-2	0	0-0-0-0-0-0-1-0	4	1-1-1-1-1-1-1-1
06 July	6	1-0-1-2-2-3-2-1	0	0-0-0-1-0-0-0-0	5	1-1-1-2-1-1-1-1

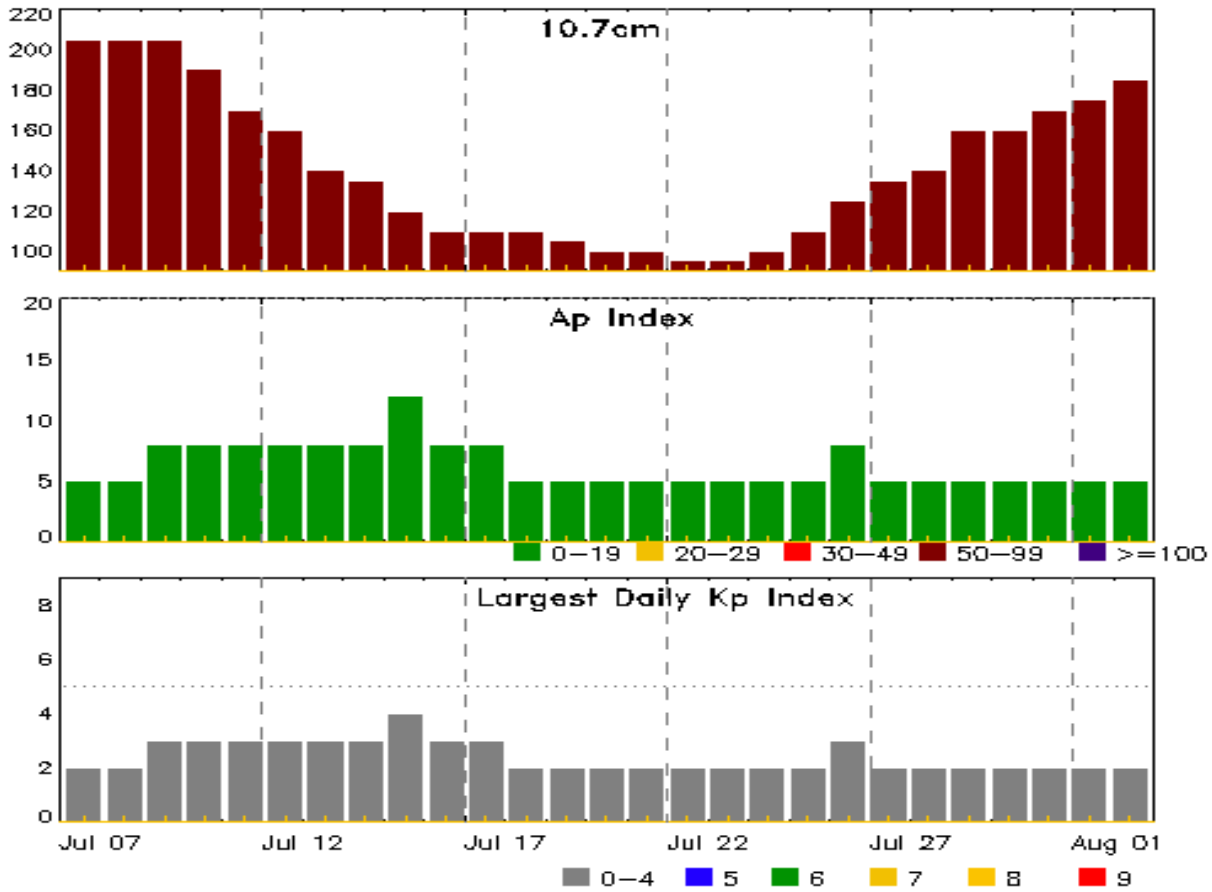


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
30 Jun 0008	WARNING: Geomagnetic K = 4	30/0005 - 0700
03 Jul 0124	SUMMARY: Geomagnetic Sudden Impulse	03/0041



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
07 Jul	205	5	2	21 Jul	100	5	2
08	205	5	2	22	95	5	2
09	205	8	3	23	95	5	2
10	190	8	3	24	100	5	2
11	170	8	3	25	110	5	2
12	160	8	3	26	125	8	3
13	140	8	3	27	135	5	2
14	135	8	3	28	140	5	2
15	120	12	4	29	160	5	2
16	110	8	3	30	160	5	2
17	110	8	3	31	170	5	2
18	110	5	2	01 Aug	175	5	2
19	105	5	2	02	185	5	2
20	100	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 #	245	2695	II	IV
01 Jul	1105	1123	1159	M1.4	0.035			2106				

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
	Begin	Max	End				
30 Jun	0040	0058	0115	C2.0			2106
30 Jun	0243	0309	0335	C2.5	SF	N16E81	2106
30 Jun	0412	0419	0426	C3.4	SF	S11E64	2104
30 Jun	0625	0627	0631		SF	S12E58	2104
30 Jun	0652	0702	0710	C2.2			2100
30 Jun	0652	0658	0716		SF	S07E63	2104
30 Jun	0700	0705	0722		SF	N09E20	2100
30 Jun	0804	0804	0809		SF	S13E60	2104
30 Jun	0835	0836	0844		SF	S11E57	2104
30 Jun	1308	1318	1345	C3.4			2106
30 Jun	1715	1716	1720		SF	S07E17	2105
30 Jun	2130	2154	2218	C1.9			2106
01 Jul	0351	0355	0400	C1.5	SF	S07E52	2104
01 Jul	0510	0608	0633	C4.8	SF	N15E64	2106
01 Jul	0559	U0610	0641		SF	N19E64	2106
01 Jul	0716	0737	0805	C6.6	SF	S19E64	2107
01 Jul	0802	0802	0805		SF	N12E61	2106
01 Jul	0857	0911	0931	C2.1			2108
01 Jul	1004	1015	1029	C6.0	1N	N15E58	2106
01 Jul	1105	1123	1159	M1.4			2106
01 Jul	1126	1130	1135		SF	S11E48	2104
01 Jul	B1237	U1237	A1243		SF	N15E57	2106
01 Jul	1326	1336	1339		SF	S09E47	2104
01 Jul	1408	1411	1415		SF	S09E47	2104
01 Jul	1425	1425	1439		SF	N18E60	2106
01 Jul	1430	1433	1443		SF	S08E46	2104
01 Jul	1619	1621	1628		SF	S04E74	
01 Jul	1635	1637	1643		SF	S06E74	
01 Jul	1655	1709	1714		SF	S06E73	
02 Jul	0212	0213	0214		SF	N15E49	2106



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
02 Jul	0309	0310	0313		SF	S09E68	2108
02 Jul	0315	0317	0323		SF	S09E68	2108
02 Jul	0512	0515	0521		SF	S08E66	2108
02 Jul	0526	0526	0535		SF	S20E51	2107
02 Jul	0606	0607	0623		SF	N10W04	2100
02 Jul	0615	0616	0618		SF	S09E37	2104
02 Jul	0616	0619	0625		SF	S19E50	2107
02 Jul	0626	0627	0637		SF	S19E50	2107
02 Jul	0641	0646	0649		SF	N15E45	2106
02 Jul	0734	0734	0738		SF	S08E64	2108
02 Jul	0742	0744	0802		SF	S08E65	2108
02 Jul	1026	1032	1058		SF	N15E28	2102
02 Jul	1142	1142	1147		SF	S05E64	2108
02 Jul	1214	1223	1242		SF	N18E44	2106
02 Jul	1311	1312	1320		SF	S12E34	2104
02 Jul	1316	1316	1331		SF	S17E48	2107
02 Jul	1351	1351	1406		SF	N15E25	2102
02 Jul	1446	1449	1504		SF	N15E25	2102
02 Jul	1450	1453	1508	C1.8	1F	N11W07	2100
02 Jul	1644	1645	1650		SF	S12E31	2104
02 Jul	1651	1651	1654		SF	S10E31	2104
02 Jul	1741	1742	1746		SF	N09W11	2100
02 Jul	1918	1918	1924		SF	S20E35	2107
02 Jul	1930	1930	1932		SF	N08W12	2100
03 Jul	0131	0138	0142		SF	N12E18	2102
03 Jul	0243	0244	0249		SF	S09E79	2109
03 Jul	0332	0359	0424	C2.6			
03 Jul	0358	0358	0400		SF	S12E25	2104
03 Jul	0421	0422	0426		SF	N12W14	2100
03 Jul	0430	0430	0433		SF	S06E73	2109
03 Jul	0433	0435	0439		SF	S08E27	2104
03 Jul	0445	0449	0455		SF	S11E26	2104
03 Jul	0455	0456	0459		SF	S06E73	2109
03 Jul	0457	0458	0500		SF	S11E26	2104
03 Jul	0502	0506	0509		SF	S14E61	
03 Jul	0534	0534	0537		SF	S10E78	2109
03 Jul	0647	0647	0649		SF	S06E72	2109
03 Jul	0655	0700	0708	C1.9	SF	S19E31	2107



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
03 Jul	0712	0712	0715		SF	S18E29	2107
03 Jul	0727	0728	0743		SF	S18E39	2107
03 Jul	0825	0827	0833		SF	S06E73	2109
03 Jul	0912	0912	0913		SF	S10E51	2108
03 Jul	0942	U0943	0950		SF	S08E25	2104
03 Jul	1029	1032	1035		SF	S07E71	2109
03 Jul	1155	1155	1159		SF	S05E70	2109
03 Jul	1232	1234	1242		SF	N13E32	2106
03 Jul	1650	1650	1700		SF	S09E19	2104
03 Jul	2131	2131	2136		SF	S09E43	2108
04 Jul	0042	0045	0048		SF	S09E61	2109
04 Jul	0306	0307	0308		SF	S04E64	2109
04 Jul	0306	0309	0322		SF	S12E12	2104
04 Jul	0322	0327	0331		SF	S06E42	2108
04 Jul	B0423	U0425	0438		SF	N13E32	2106
04 Jul	0426	0431	0438		SF	S05E64	2109
04 Jul	B0441	U0447	0459		SF	S05E70	2109
04 Jul	B0441	U0442	0459		SF	S05E64	2108
04 Jul	0528	0529	0537		SF	S05E41	2108
04 Jul	0534	0537	0542	C2.4	SF	S08E61	2109
04 Jul	0617	U0637	A0645		SF	S05E40	2108
04 Jul	0634	0635	0639		SF	N18E15	2106
04 Jul	0700	0702	0711		SF	S07E39	2108
04 Jul	0732	0733	0737		SF	S02E54	2109
04 Jul	0738	0739	0742		SF	S03E55	2109
04 Jul	0904	0905	0907		SF	N16E13	2106
04 Jul	0919	0923	0937		SF	N17E22	2106
04 Jul	0924	0924	0936		SF	S20E16	2107
04 Jul	1044	1046	1051		SF	S05E38	2108
04 Jul	1052	1052	1057		SF	S06E36	2108
04 Jul	1224	1228	1232		SF	S20E15	2107
04 Jul	1318	1331	1354		SF	S06E39	2108
04 Jul	1357	1403	1407		SF	S06E39	2108
04 Jul	1411	1413	1418		SF	S06E39	2108
04 Jul	1430	1439	1448	C4.2	1F	S06E34	2108
04 Jul	1433	1436	1446		SF	N15E25	2102
04 Jul	1519	1541	1608		SF	S04E58	2109
04 Jul	1611	1612	1619		SF	S06E34	2108



Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical	
	Begin	Max	End			Location Lat CMD	Rgn #
05 Jul	0002	0002	0007		SF	S09E28	2108
05 Jul	0158	0158	0208		SF	S09E51	2109
05 Jul	0214	0215	0218		SF	N10E07	2106
05 Jul	0219	0220	0223		SF	S09E31	2108
05 Jul	0512	0517	0524	C1.4	SF	S09E01	2104
05 Jul	0551	0554	0559	C1.9	SF	S07E29	2108
05 Jul	0828	0837	0843	C1.6	SF	S19E03	2107
05 Jul	1227	1228	1230		SF	S08E26	2108
05 Jul	1318	1318	1326		SF	S05E24	2108
05 Jul	1333	1334	1342		SF	S18E10	2107
05 Jul	2238	2240	2247		SF	S09W07	2104
06 Jul	0018	0025	0031	C4.0	SF	S09E36	2109
06 Jul	0132	0134	0141		SF	S05E31	2109
06 Jul	B0459	U0517	A0533		SF	S06E37	2109
06 Jul	0655	0700	0703	C3.5	SF	S06E15	2108
06 Jul	0736	0736	0756		SF	S07E34	2109
06 Jul	0809	0816	0830	C2.9	SF	S06E34	2109
06 Jul	1157	1158	1202		SF	S05E16	2108
06 Jul	1203	1203	1208		SF	S06E32	2109
06 Jul	1211	1212	1235		SF	S08E09	2108
06 Jul	1211	1217	1240		SF	S16E16	2110
06 Jul	1338	1347	1517		SF	S08E09	2108
06 Jul	1456	1457	1501		SF	N16W16	2106
06 Jul	1550	1556	1610		SF	S10E08	2108
06 Jul	2003	2006	2011	C1.6			
06 Jul	2048	2052	2056	C1.9			
06 Jul	2354	2354	2356		SF	S22W13	2107



Region Summary

Date	Location		Sunspot Characteristics				Flares											
	Lat CMD	Helio Lon	Area 10 ⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical							
								C	M	X	S	1	2	3	4			
Region 2096																		
22 Jun	N09E70	357	60	3	Hsx	1	A											
23 Jun	N08E56	357	80	3	Hsx	1	A											
24 Jun	N09E42	358	80	2	Hax	2	A	1				1						
25 Jun	N09E30	357	120	3	Cao	3	B					4						
26 Jun	N09E18	355	70	6	Cao	7	B	1				2						
27 Jun	N09E04	356	70	6	Cao	7	B					1						
28 Jun	N09W10	357	70	5	Cso	5	B	1				1						
29 Jun	N09W24	358	70	4	Cao	5	B	4				1						
30 Jun	N09W36	356	20	3	Cso	2	B											
01 Jul	N09W51	357	10	1	Hsx	1	A											
02 Jul	N10W66	360	10	1	Axx	1	A											
03 Jul	N10W80	360	plage															
								7	0	0	10	0	0	0	0	0		

Crossed West Limb.
 Absolute heliographic longitude: 356

Region 2097																		
22 Jun	N13E76	351	30	2	Hax	1	A											
23 Jun	N13E62	351	30	2	Hax	1	A					1						
24 Jun	N12E49	351	30	2	Hax	1	A											
25 Jun	N12E35	352	50	1	Hsx	1	A											
26 Jun	N12E23	350	40	1	Hax	1	A											
27 Jun	N12E09	351	20	1	Hax	1	A											
28 Jun	N13W03	350	30	2	Hax	1	A											
29 Jun	N13W17	351	30	1	Hsx	1	A											
30 Jun	N12W30	350	20	1	Hsx	1	A											
01 Jul	N12W44	350	10	1	Hsx	3	A											
02 Jul	N14W58	352	10	1	Axx	1	A											
03 Jul	N14W72	353	plage															
04 Jul	N14W86	354	plage															
								0	0	0	1	0	0	0	0	0		

Crossed West Limb.
 Absolute heliographic longitude: 350



Region Summary - continued

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

Region 2098

24 Jun	S09E18	22	20	3	Dro	4	B										
25 Jun	S08E04	23	60	3	Dao	6	B										
26 Jun	S08W09	22	80	3	Dao	10	B										
27 Jun	S08W21	21	30	7	Cao	4	B										
28 Jun	S09W35	22	10	1	Hrx	1	A										
29 Jun	S09W49	23	plage														
30 Jun	S09W63	24	plage														
01 Jul	S09W77	24	plage														
									0	0	0	0	0	0	0	0	0

Died on Disk.

Absolute heliographic longitude: 23

Region 2099

27 Jun	S17W05	5	10	2	Bxo	2	B										
28 Jun	S16W19	6	plage														
29 Jun	S16W33	7	plage														
30 Jun	S16W47	8	plage														
01 Jul	S16W61	8	plage														
02 Jul	S16W75	9	plage														
03 Jul	S16W89	10	plage														
									0	0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 5

Region 2100

27 Jun	N10E52	308	10	7	Bxo	3	B										
28 Jun	N11E39	308	10	8	Bxo	5	B	2			1						
29 Jun	N11E25	309	10	8	Bxo	5	B	1			3						
30 Jun	N09E11	310	60	9	Dai	12	B	1			1						
01 Jul	N09W02	309	20	6	Dai	11	B										
02 Jul	N10W14	308	40	7	Cai	16	B	1			3	1					
03 Jul	N11W27	308	30	8	Dao	14	B				1						
04 Jul	N11W40	308	30	5	Cro	9	B										
05 Jul	N10W54	309	20	3	Cro	4	B										
06 Jul	N10W68	309	plage														
									5	0	0	9	1	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 309



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 2101																	
27 Jun	S06W16		16	10	1	Axx	1	A									
28 Jun	S07W30		17	plage													
29 Jun	S07W45		19	plage													
30 Jun	S07W60		21	plage													
01 Jul	S07W75		22	plage													
02 Jul	S07W90		24	plage													
									0	0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 16

Region 2102																	
28 Jun	N11E65		282	20	1	Hax	1	A									
29 Jun	N11E51		283	10	1	Axx	1	A									
30 Jun	N12E41		280	20	6	Cro	3	B									
01 Jul	N13E30		277	50	8	Dsi	8	B									
02 Jul	N12E17		277	70	8	Dsi	15	B				3					
03 Jul	N13E04		277	60	8	Dai	19	B				1					
04 Jul	N12W09		277	70	8	Dai	13	B				1					
05 Jul	N11W24		279	30	5	Cao	7	B									
06 Jul	N11W38		279	20	3	Cao	6	B									
									0	0	0	5	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 277

Region 2103																	
28 Jun	S10E52		295	10	2	Axx	2	A									
29 Jun	S10E38		296	plage													
30 Jun	S10E24		297	plage													
01 Jul	S10E10		297	plage													
02 Jul	S10W04		298	plage													
03 Jul	S10W18		299	plage													
04 Jul	S10W32		300	plage													
05 Jul	S10W46		301	plage													
06 Jul	S13W58		299	10	2	Bxo	5	B									
									0	0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 298



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 2104																	
28 Jun	S10E78	269	80	4	Dao	4	B	4									
29 Jun	S10E64	270	260	7	Dki	7	B	5				4					
30 Jun	S11E51	270	350	7	Dkc	7	BGD	1				5					
01 Jul	S11E39	268	410	7	Dkc	16	BGD	1				5					
02 Jul	S12E25	269	470	10	Dkc	23	BGD					4					
03 Jul	S11E12	269	400	8	Dkc	23	BG					6					
04 Jul	S12W01	269	470	7	Dkc	21	BG					1					
05 Jul	S12W14	269	390	7	Dkc	21	BG	1				2					
06 Jul	S12W28	269	280	8	Dkc	26	BG										
								12	0	0	27	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 269

Region 2105																	
29 Jun	S07E24	310	10	3	Cro	3	B										
30 Jun	S06E11	310	10	3	Cai	6	B					1					
01 Jul	S06W04	311	10	3	Bxo	3	B										
02 Jul	S05W12	308	10	1	Axx	1	A										
03 Jul	S05W27	308	plage														
04 Jul	S05W42	310	plage														
05 Jul	S05W57	312	plage														
06 Jul	S05W72	313	plage														
								0	0	0	1	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 311

Region 2106																	
29 Jun	N15E73	261	20	3	Cro	4	B	2									
30 Jun	N15E60	261	20	5	Dai	4	B	4				1					
01 Jul	N15E46	261	50	7	Dao	9	B	2	1			5	1				
02 Jul	N14E34	260	70	6	Dao	9	B					3					
03 Jul	N15E22	259	120	6	Dso	12	B					1					
04 Jul	N14E08	260	140	8	Dao	12	BG					4					
05 Jul	N15W06	261	120	6	Dao	5	B					1					
06 Jul	N15W21	262	120	9	Cao	5	B					1					
								8	1	0	16	1	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 261



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 2107																							
29 Jun	S20E75	259	250	7	Dhi	6	B	1				1											
30 Jun	S20E59	262	250	10	Dhi	9	BG																
01 Jul	S20E46	261	260	10	Dhc	8	BD	1				1											
02 Jul	S20E34	261	340	9	Dko	7	B					5											
03 Jul	S20E22	259	310	7	Dko	7	BG	1				3											
04 Jul	S20E10	258	290	11	Eho	9	BG					2											
05 Jul	S21W03	258	260	11	Ehi	14	BG	1				2											
06 Jul	S20W16	257	250	12	Ehi	9	BG					1											
								4	0	0		15	0	0	0	0							

Still on Disk.

Absolute heliographic longitude: 258

Region 2108																							
01 Jul	S08E68	239	30	6	Dao	5	B	1															
02 Jul	S09E53	241	90	5	Dao	6	B					6											
03 Jul	S09E40	241	90	6	Dao	7	B					2											
04 Jul	S08E28	240	120	9	Dai	16	BG	1				11	1										
05 Jul	S08E16	239	350	9	Dki	27	BG	1				5											
06 Jul	S08E02	239	620	12	Eki	36	BGD	1				5											
								4	0	0		29	1	0	0	0							

Still on Disk.

Absolute heliographic longitude: 239

Region 2109																							
02 Jul	S08E74	220	150	6	Hsx	1	A																
03 Jul	S08E61	220	410	10	Dkc	15	B					8											
04 Jul	S08E49	219	630	11	Ekc	20	BG	1				8											
05 Jul	S08E36	219	830	13	Ekc	23	BG					1											
06 Jul	S08E21	220	800	13	Ekc	47	BGD	2				6											
								3	0	0		23	0	0	0	0							

Still on Disk.

Absolute heliographic longitude: 220



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

Region 2110

03 Jul	S16E48	233	10	5	Bxo	2	B										
04 Jul	S17E35	233	10	6	Bxo	5	B										
05 Jul	S16E22	233	10	6	Dro	6	B										
06 Jul	S16E07	234	10	8	Bxo	6	B				1						
								0	0	0	1	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 234

Region 2111

04 Jul	N05E65	203	70	5	Cao	4	B										
05 Jul	N06E54	201	70	9	Dao	4	B										
06 Jul	N06E39	202	70	9	Cao	4	B										
								0	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 202

Region 2112

05 Jul	S19W42	297	10	3	Bxo	2	B										
06 Jul	S19W57	298	0	1	Axx	1	A										
								0	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 297

Region 2113

06 Jul	N12E80	161	50	2	Hax	1	A										
								0	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 161

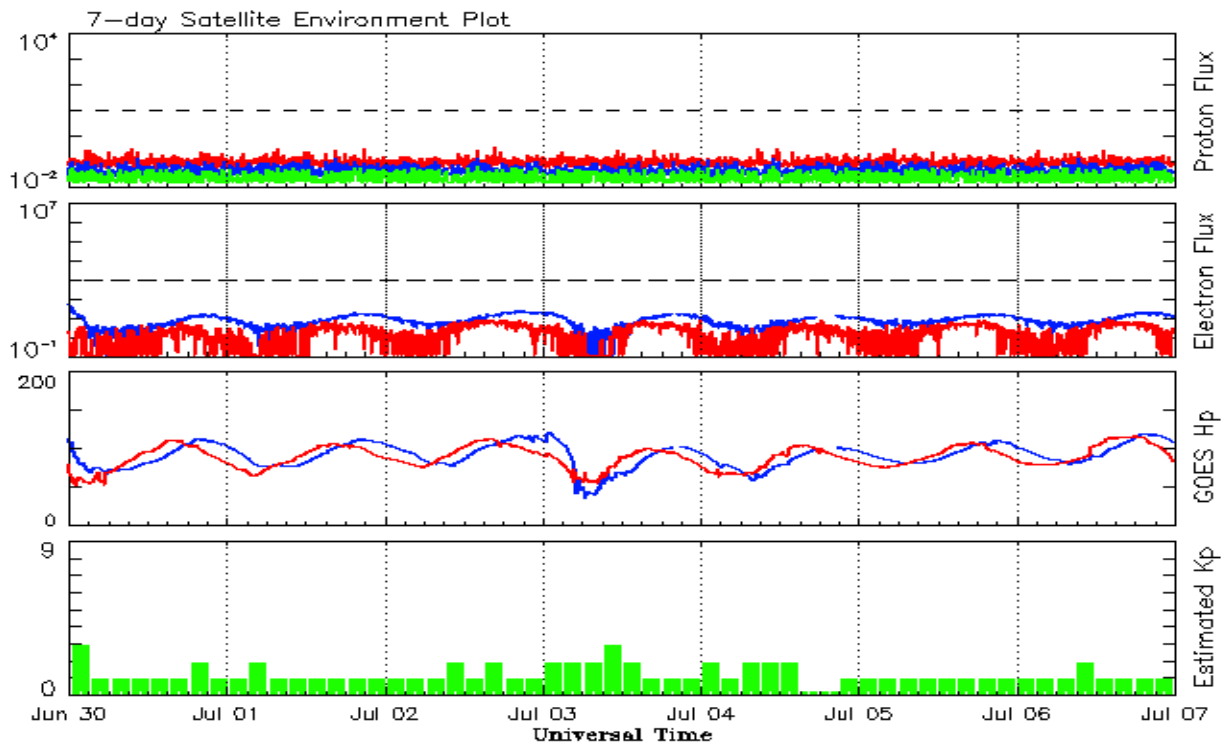


Recent Solar Indices (preliminary)
Observed monthly mean values

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									
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	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			158.6		6	
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	

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 30 June 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.

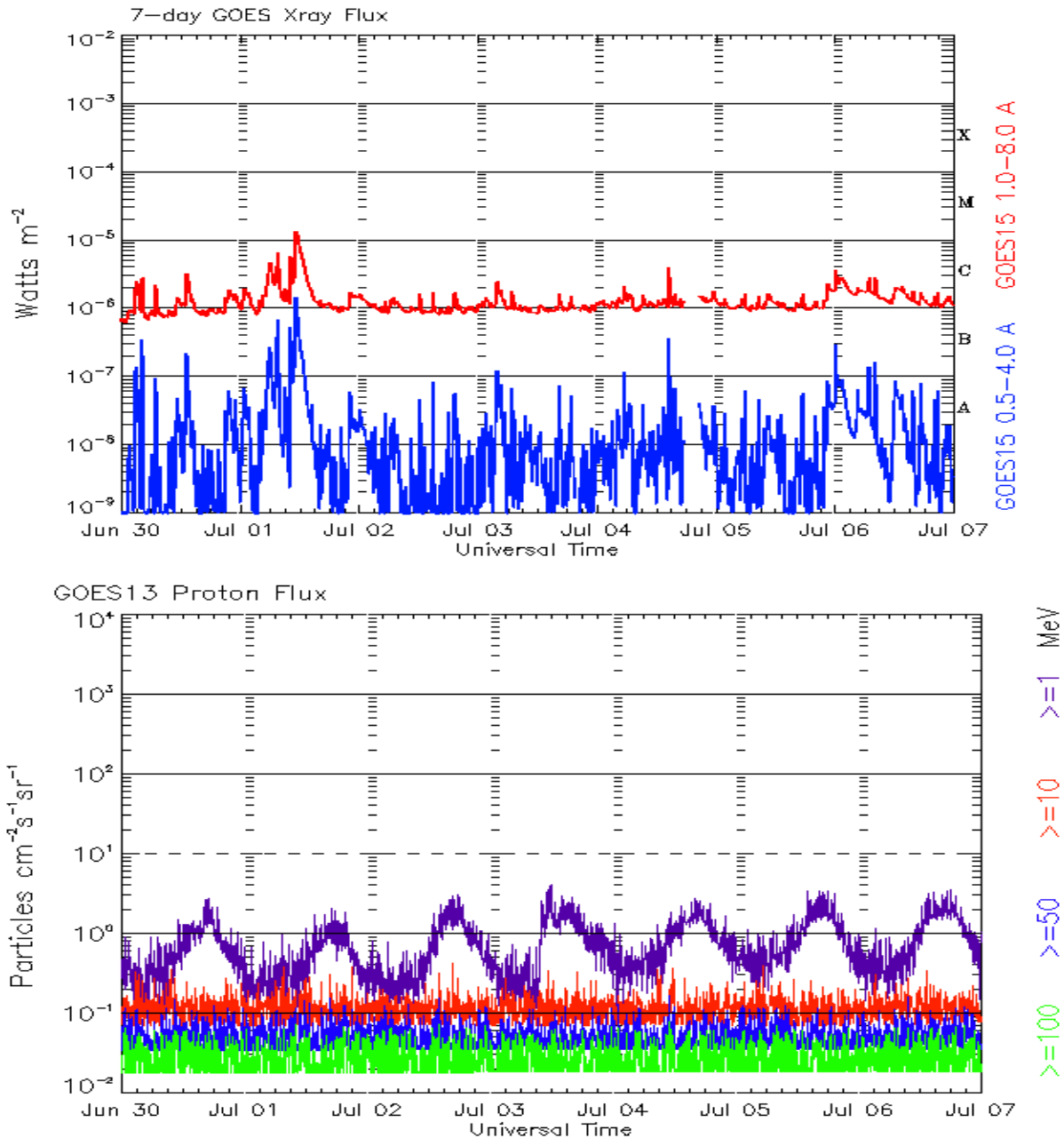
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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 30 June 2014*

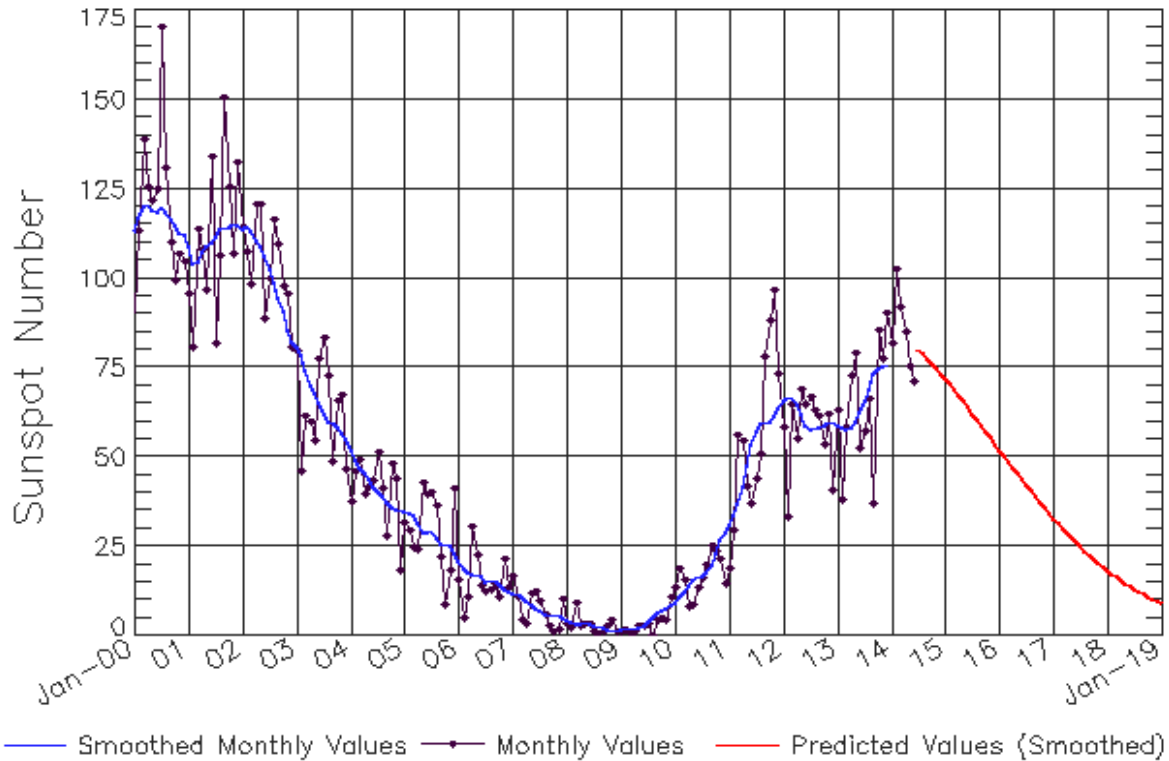
The x-ray plots contains five-minute averages x-ray flux (Watt/m²) as measure by the SWPC primary GOES X-ray satellite, usually at West 105 longitude, in two wavelength bands, 0.05 - 0.4 and 0.1 - 0.8 nm. The letters A, B, C, M and X refer to x-ray event levels for the 0.1 - 0.8 nm band.

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.



ISES Solar Cycle Sunspot Number Progression

Observed data through Jun 2014



Updated 2014 Jul 7

NOAA/SWPC Boulder, CO USA

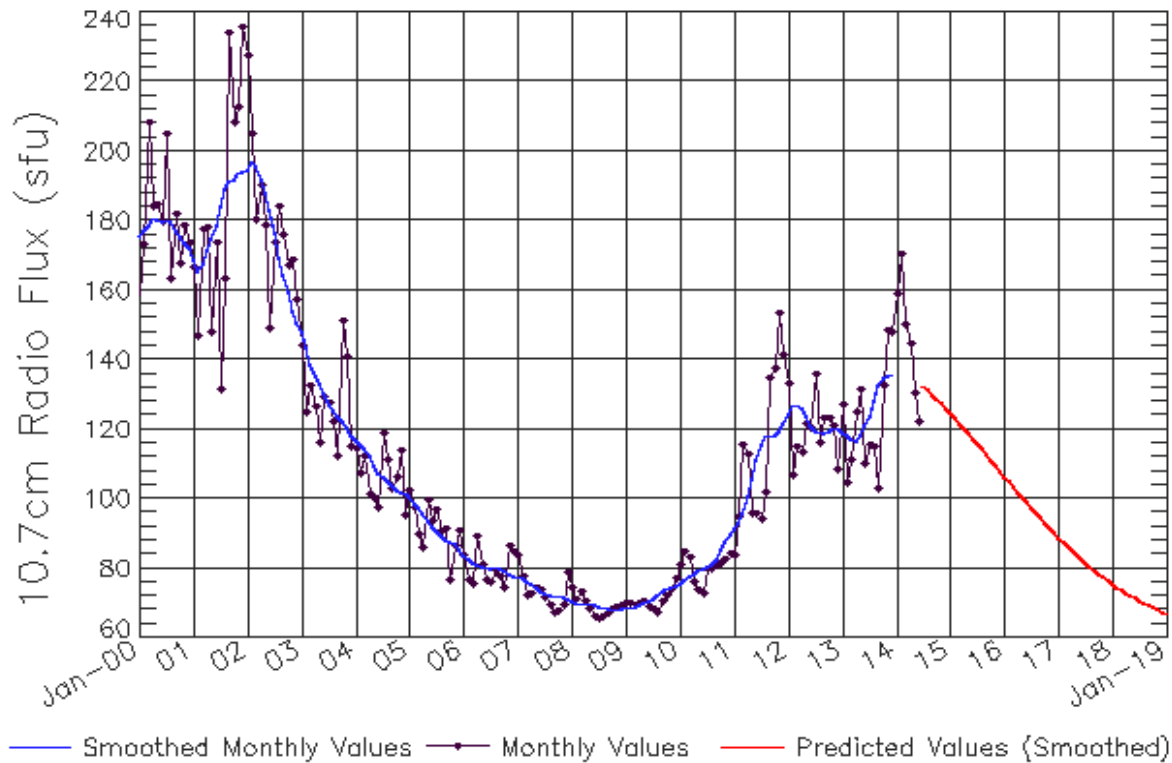
Smoothed Sunspot Number Prediction

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2010	9 (***)	11 (***)	12 (***)	14 (***)	16 (***)	16 (***)	17 (***)	17 (***)	20 (***)	23 (***)	27 (***)	29 (***)
2011	31 (***)	33 (***)	37 (***)	42 (***)	48 (***)	53 (***)	57 (***)	59 (***)	60 (***)	60 (***)	61 (***)	63 (***)
2012	66 (***)	67 (***)	67 (***)	65 (***)	62 (***)	59 (***)	58 (***)	58 (***)	58 (***)	59 (***)	60 (***)	60 (***)
2013	59 (***)	58 (***)	58 (***)	58 (***)	60 (***)	63 (***)	66 (***)	69 (***)	73 (***)	75 (***)	75 (***)	76 (***)
2014	78 (1)	79 (2)	81 (3)	83 (5)	82 (5)	81 (6)	80 (7)	79 (7)	76 (8)	75 (9)	73 (9)	73 (10)
2015	72 (10)	70 (10)	69 (10)	67 (10)	65 (10)	64 (10)	62 (10)	60 (10)	59 (10)	57 (10)	55 (10)	54 (10)
2016	52 (10)	50 (10)	49 (10)	47 (10)	45 (10)	44 (10)	42 (10)	40 (10)	39 (10)	37 (10)	36 (10)	34 (10)
2017	33 (10)	31 (10)	30 (10)	29 (10)	27 (10)	26 (10)	25 (10)	24 (10)	23 (10)	21 (10)	20 (10)	19 (10)
2018	18 (10)	17 (10)	16 (10)	15 (10)	15 (10)	14 (10)	13 (10)	12 (10)	12 (10)	11 (10)	10 (10)	10 (10)
2019	9 (10)	8 (10)	8 (10)	7 (10)	7 (10)	6 (10)	6 (10)	6 (10)	5 (10)	5 (10)	4 (10)	4 (10)



ISES Solar Cycle F10.7cm Radio Flux Progression

Observed data through Jun 2014



Updated 2014 Jul 7

NOAA/SWPC Boulder, CO USA

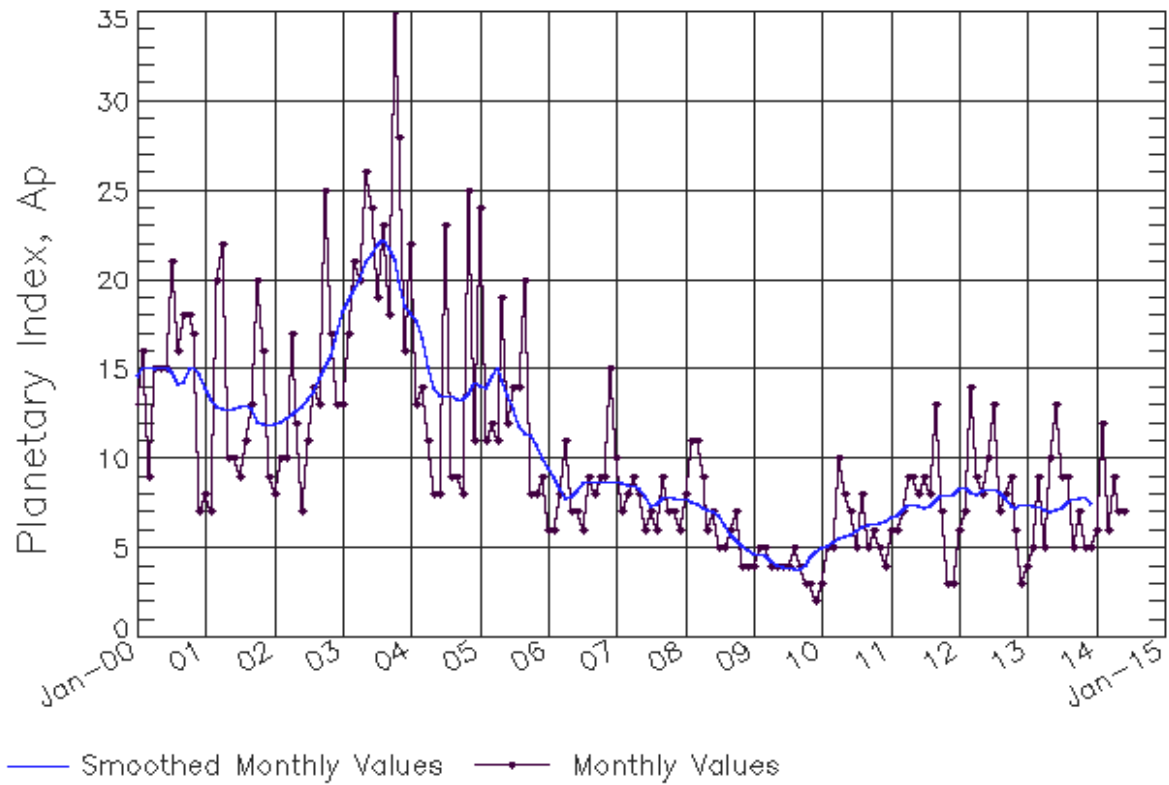
Smoothed F10.7cm Radio Flux Prediction

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2010	76 (**)	77 (**)	78 (**)	78 (**)	79 (**)	80 (**)	80 (**)	81 (**)	82 (**)	85 (**)	88 (**)	90 (**)
2011	91 (**)	93 (**)	96 (**)	100 (**)	106 (**)	111 (**)	115 (**)	118 (**)	118 (**)	118 (**)	120 (**)	122 (**)
2012	124 (**)	127 (**)	127 (**)	126 (**)	124 (**)	121 (**)	120 (**)	119 (**)	119 (**)	119 (**)	120 (**)	120 (**)
2013	119 (**)	118 (**)	117 (**)	117 (**)	118 (**)	121 (**)	124 (**)	128 (**)	132 (**)	135 (**)	135 (**)	136 (**)
2014	137 (1)	139 (1)	140 (2)	141 (3)	140 (4)	139 (4)	136 (5)	133 (6)	130 (7)	128 (8)	126 (8)	125 (9)
2015	125 (9)	123 (9)	122 (9)	120 (9)	119 (9)	117 (9)	116 (9)	114 (9)	113 (9)	111 (9)	110 (9)	108 (9)
2016	106 (9)	105 (9)	103 (9)	102 (9)	100 (9)	99 (9)	97 (9)	96 (9)	94 (9)	93 (9)	92 (9)	90 (9)
2017	89 (9)	88 (9)	86 (9)	85 (9)	84 (9)	83 (9)	82 (9)	80 (9)	79 (9)	78 (9)	77 (9)	76 (9)
2018	75 (9)	75 (9)	74 (9)	73 (9)	72 (9)	71 (9)	71 (9)	70 (9)	69 (9)	69 (9)	68 (9)	67 (9)
2019	67 (9)	66 (9)	66 (9)	65 (9)	65 (9)	65 (9)	64 (9)	64 (9)	63 (9)	63 (9)	63 (9)	63 (9)



ISES Solar Cycle Ap Progression

Observed data through Jun 2014



Updated 2014 Jul 7

NOAA/SWPC Boulder, CO USA

Solar Cycle Comparison charts are temporarily unavailable.



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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<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

