

Solar activity ranged from low to high levels during the period. The largest and most active regions on the solar disk this period were Regions 2335 (S15, L=192, class/area Eac/310 on 04 May) and 2339 (N13, L=129, class/area Fkc/900 on 08 May). Region 2335 began the period reaching its peak in area and magnetic complexity (Beta-gamma). On 05 May it produced two M-class flares; an M1 at 05/1425 UTC and an M2 at 05/1724 UTC. By 06 May, Region 2335 was in decay and ended the period as a simple Cro spot class with a beta magnetic configuration. Region 2339 was in a growth phase since it rotated around the NE limb on 05 May. This region was responsible for multiple M-class flaring spanning 05-06 May and an impulsive X2 flare at 05/2211 UTC with an associated Type II radio sweep (1163 km/s), a 590 sfu Tenflare and a non-Earth directed coronal mass ejection (CME) first observed in SOHO/LASCO C2 imagery at 05/2224 UTC off the NE limb. Solar activity declined to low levels from 07-10 May.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at moderate levels on 04-05 May and at normal levels from 06-10 May.

Geomagnetic field activity ranged from quiet to minor storm levels during the period. The period started off with quiet conditions on 04 and 05 May under a nominal solar wind regime. At 06/0053 UTC, a shock was observed at the ACE satellite associated with a 02 May CME that occurred as a result of an 18 degree filament eruption observed between 02/1500-1830 UTC. Total field increased to a maximum of 18 nT at 06/0614 UTC while the Bz component went southward to a maximum of -13 nT at 06/1216 UTC. Solar wind speeds increased from 363 km/s to around 490 km/s. A geomagnetic sudden impulse was subsequently observed at 06/0143 UTC with a 31 nT deviation in the Boulder magnetometer. As a result, quiet to minor storm levels were observed on 06 May. By late on 06 May and through 07 May, the Bz component deflected north and remained so as CME effects diminished. Nominal solar wind conditions prevailed through 10 May when the total field became enhanced once again. Total field increased to 14 nT with prolonged periods of southward Bz. No appreciable increase in solar wind speed was observed with this event, however. The geomagnetic field was quiet on 07 May, quiet to unsettled on 08 and 09 May and quiet to active on 10 May.

Space Weather Outlook

11 May - 06 June 2015

Solar activity is expected to be at low levels with a chance for M-class (R1-R2, Minor-Moderate) flares from 11-18 May as Region 2339 transits the visible disk and again from 31 May-06 June when Region 2339 returns.

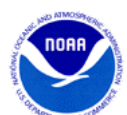
No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal to



moderate levels with high levels possible from 13-18 May and again from 21-23 May due to coronal hole high speed stream (CH HSS) activity.

Geomagnetic field activity is expected to be at unsettled to active levels from 11 through 14 May with periods of minor storming (G1-Minor) likely on 12-13 May due to a combination of a co-rotating interaction region followed by a CH HSS. Unsettled to active levels are also expected from 18-19 May and 02 -03 June with possible periods of minor storming on 18 May due to multiple recurrent CH HSS.



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
04 May	125	85	370	B5.6	8	0	0	11	1	0	0	0
05 May	128	99	650	B8.4	18	4	1	17	1	1	0	0
06 May	136	110	940	B8.6	9	1	0	18	1	0	0	0
07 May	147	131	1080	B7.0	8	0	0	17	1	0	0	0
08 May	150	134	1230	B6.1	9	0	0	6	1	0	0	0
09 May	155	136	1060	B6.1	5	0	0	13	0	0	0	0
10 May	160	134	1060	B6.9	7	0	0	11	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
	04 May	2.2e+05	1.1e+04	2.5e+03		8.9e+06
05 May	2.8e+05	1.0e+04	2.5e+03		5.2e+06	
06 May	2.8e+05	9.4e+03	2.0e+03		1.6e+06	
07 May	5.9e+04	9.9e+03	2.2e+03		1.3e+06	
08 May	7.9e+04	1.0e+04	2.6e+03		1.1e+06	
09 May	1.3e+05	1.0e+04	2.5e+03		9.6e+05	
10 May	5.8e+04	1.0e+04	2.4e+03		1.6e+05	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	04 May	7	2-1-3-2-2-2-1-1	0	2-1-3-2-0-0-0-0	6
05 May	11	0-0-0-0-0-0-2-3	3	0-0-0-0-0-0-1-1	5	1-1-2-2-2-1-1-2
06 May	21	4-3-4-3-5-3-3-2	41	4-3-3-4-7-6-3-2	23	4-3-3-4-5-4-3-2
07 May	6	2-2-1-1-2-2-2-2	4	1-2-1-0-1-2-2-1	6	2-2-1-1-1-2-1-2
08 May	7	2-3-2-2-2-1-2-1	10	2-2-2-5-2-0-1-0	6	3-2-2-2-1-1-1-1
09 May	8	1-1-1-2-2-2-3-3	3	0-0-0-1-1-2-2-2	7	1-1-0-2-1-2-3-3
10 May	12	1-2-3-3-4-1-2-3	15	2-1-4-5-3-2-2-1	11	2-2-3-4-3-1-2-2

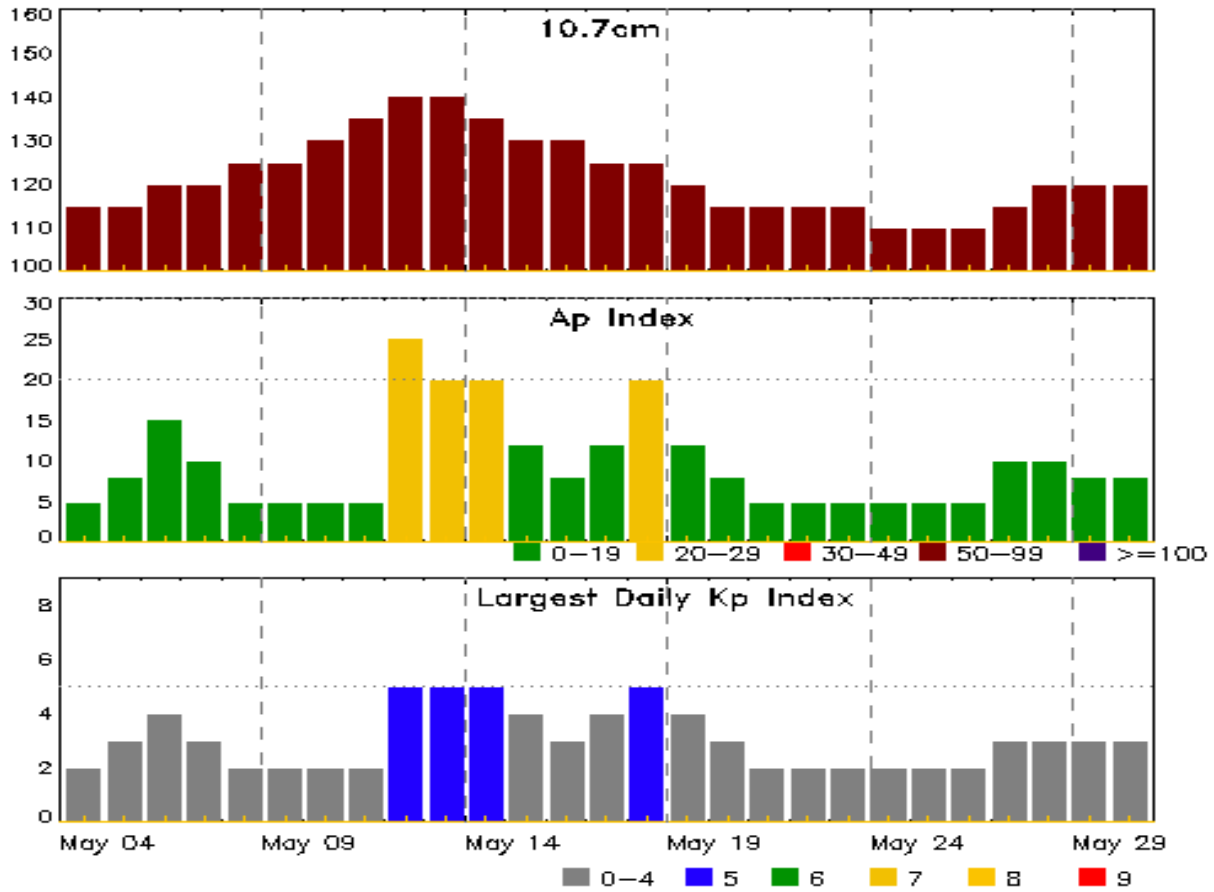


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
05 May 1418	ALERT: Type II Radio Emission	05/1351
05 May 2213	ALERT: X-ray Flux exceeded M5	05/2208
05 May 2238	SUMMARY: 10cm Radio Burst	05/2207 - 2209
05 May 2238	ALERT: Type II Radio Emission	05/2212
05 May 2238	SUMMARY: X-ray Event exceeded X1	05/2205 - 2215
06 May 0134	WARNING: Geomagnetic K = 4	06/0132 - 0700
06 May 0201	SUMMARY: Geomagnetic Sudden Impulse	06/0143
06 May 0205	CANCELLATION: Geomagnetic Sudden Impulse	
06 May 0206	SUMMARY: Geomagnetic Sudden Impulse	06/0143
06 May 0258	ALERT: Geomagnetic K = 4	06/0258
06 May 0640	EXTENDED WARNING: Geomagnetic K = 4	06/0132 - 1300
06 May 1211	EXTENDED WARNING: Geomagnetic K = 4	06/0132 - 07/0100
06 May 1404	WARNING: Geomagnetic K = 5	06/1405 - 2300
06 May 1414	ALERT: Geomagnetic K = 5	06/1409
07 May 0059	EXTENDED WARNING: Geomagnetic K = 4	06/0132 - 07/0700
10 May 0223	WATCH: Geomagnetic Storm Category G1 predicted	
10 May 0223	WATCH: Geomagnetic Storm Category G1 predicted	
10 May 1124	WARNING: Geomagnetic K = 4	10/1123 - 1600
10 May 1131	ALERT: Geomagnetic K = 4	10/1130



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
11 May	160	12	4	25 May	110	5	2
12	165	25	5	26	110	5	2
13	160	25	5	27	110	5	2
14	155	12	4	28	115	5	2
15	155	8	3	29	120	8	3
16	155	5	2	30	120	8	3
17	145	5	2	31	120	5	2
18	135	20	5	01 Jun	130	8	3
19	125	12	4	02	140	15	4
20	120	8	3	03	140	10	3
21	115	5	2	04	140	5	2
22	115	5	2	05	145	5	2
23	115	5	2	06	150	5	2
24	110	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
05 May	0942	0947	0951	M1.9	0.005			2339				
05 May	1345	1353	1356	M1.2	0.005	SF	N15E75	2339				2
05 May	1419	1425	1432	M1.3	0.007			2335				
05 May	1712	1724	1730	M2.6	0.013			2335				
05 May	2205	2211	2215	X2.7	0.093			2339	4500	590		2
06 May	1145	1149	1151	M1.9	0.003	SN	N17E67	2339	720	34		

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
	Begin	Max	End				
04 May	B0000	0051	0143	C8.0	1F	S18E42	2335
04 May	0249	0303	0312	C3.0	SF	N05E58	2338
04 May	0406	0407	0411		SF	N04E57	2338
04 May	0418	0421	0428	C1.5	SF	S18E35	2335
04 May	0452	0457	0524	C1.0	SF	S15E38	2335
04 May	0557	0600	0602	B8.0			2338
04 May	0634	0639	0642	B9.7	SF	S15E35	2335
04 May	0838	0852	0901	C1.4	SF	S15E33	2335
04 May	0901	0905	0912		SF	S15E33	2335
04 May	0939	0940	0944		SF	S16E32	2335
04 May	1023	1032	1038	C2.0			
04 May	1108	1108	1113		SF	S16E34	2335
04 May	1128	1128	1133		SF	S16E34	2335
04 May	1213	1214	1228		SF	S15E31	2335
04 May	1657	1705	1712	C5.1			
04 May	2240	2250	2253	C1.7			
05 May	0054	0055	0057		SF	N05E44	2338
05 May	0218	0233	0239	C2.1	SF	S18E25	2335
05 May	0300	0303	0305	C2.5	SF	N11E76	
05 May	0326	0330	0333	C1.5	SF	N09E77	2335
05 May	0343	0408	0413	C5.1	SF	N09E77	2338
05 May	0438	0447	0452	C2.6			2339
05 May	0502	0506	0509	C2.6			2339
05 May	0656	0711	0725	C2.6	SF	S18E21	2335
05 May	0757	0802	0805	C4.3			2339



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
05 May	0820	0837	0846	C3.7			
05 May	0857	0858	0905		SF	N14E80	2339
05 May	0911	0920	0930	C3.7			2339
05 May	0942	0947	0951	M1.9			2339
05 May	1012	1015	1026		SF	S17E20	2335
05 May	1020	1021	1027		SF	N14E80	2339
05 May	1120	1129	1143	C6.6	SN	S17E19	2335
05 May	1155	1158	1200	C3.6			
05 May	1242	1424	1458		1N	S17E18	2335
05 May	1345	1353	1356	M1.2	SF	N15E75	2339
05 May	1419	1425	1432	M1.3			2335
05 May	1505	1507	1513		SF	S17E17	2335
05 May	1520	U1520	A1528		SF	S15E16	2335
05 May	1631	1638	1644	C1.5	SF	S17E39	2335
05 May	1704	1708	1710	C1.9	2N	S17E15	2335
05 May	1712	1724	1730	M2.6			2335
05 May	1754	1758	1801		SF	S15E16	2335
05 May	1838	1841	1843	C1.3	SF	S15E16	2335
05 May	2053	2056	2102	C1.9			
05 May	2112	2116	2128	C1.7	SF	S16E14	2335
05 May	2133	2143	2153	C2.5			2339
05 May	2205	2211	2215	X2.7			2339
06 May	0002	0006	0021		SF	S17E13	2335
06 May	0150	0155	0158	C3.9	SF	N14E73	2339
06 May	0215	0215	0218		SF	S19E13	2335
06 May	0223	0227	0241		SF	N11E75	2339
06 May	0247	0252	0253		SF	N11E75	2339
06 May	0429	0430	0445		SF	S17E10	2335
06 May	0506	0510	0513	C2.3			2339
06 May	0636	0641	0646	C3.4	SF	N16E73	2339
06 May	0650	0654	0657	C2.4			
06 May	0748	0809	0818		SF	N18E76	2339
06 May	0830	0835	0842		SF	S14E09	2335
06 May	0915	0920	0926		SF	N16E71	2339
06 May	1103	1112	1123	C3.4			2339
06 May	1145	1149	1151	M1.9	SN	N17E67	2339
06 May	1243	1302	1307		SF	N15E78	2339
06 May	1346	1405	1416		SF	S20E09	2335



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/Brtns	Location Lat CMD	Rgn #
06 May	1401	U1405	1414		SF	S20E09	2335
06 May	1608	1611	1615	C1.5	SF	S15E05	2335
06 May	1625	1633	1637		SF	S16E03	2335
06 May	1714	1718	1723	C2.0			2335
06 May	1959	2016	2018	C2.9			2339
06 May	2003	2003	2009		SF	N16E65	2339
06 May	2014	2015	2037		1F	N15E63	2339
06 May	2019	2023	2025	C3.0			2339
06 May	2246	2247	2254		SF	N15E63	2339
07 May	0001	0003	0045		SF	S16E14	2337
07 May	0004	0006	0008		SF	N13E65	2339
07 May	0322	0326	0332	C1.1	SF	N11E62	2339
07 May	0416	0431	0456	C1.2	SF	N11E62	2339
07 May	0624	0631	0638	C1.6	SF	N11E60	2339
07 May	0746	0747	0757		SF	N14E58	2339
07 May	B0953	U0958	A1057	C4.3	SF	N16E70	2339
07 May	1106	1107	1110		SF	S17E10	2337
07 May	1111	1111	1115		SF	N17E55	2339
07 May	1123	1126	1127		SF	N15E56	2339
07 May	1129	1136	1138		SF	N16E57	2339
07 May	1139	1140	1148		SF	N16E57	2339
07 May	1215	1216	1220		SF	N16E57	2339
07 May	B1520	U1528	1625	C1.8	SF	N13E57	2339
07 May	1649	1654	1703	C2.8	SF	N16E53	2339
07 May	1947	2000	2009	C5.0			2339
07 May	2242	2242	2252		SF	N12E51	2339
07 May	2311	2315	2320	C1.7	SF	N12E51	2339
07 May	2323	2323	2337		1F	N15E48	2339
08 May	0251	0251	0259		SF	N10E45	2339
08 May	0356	0409	0414	C5.5	1N	N10E46	2339
08 May	0433	0445	0448	C1.0	SF	N11E50	2339
08 May	0451	0501	0503	C1.0			2339
08 May	0800	0808	0813	C1.5			
08 May	0929	0932	0934	C1.0			2339
08 May	0937	0940	0942	C4.1	SF	N12E49	2339
08 May	1457	1501	1504	C1.4	SF	N12E40	2339
08 May	1545	1547	1557		SF	N16E39	2339
08 May	1950	1955	2003	C1.0			2339



Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical		Rgn #
	Begin	Max	End			Location Lat CMD		
08 May	2132	2150	2220	C2.0	SF	N10E36		2339
09 May	0000	0001	0021		SF	N16E38		2339
09 May	0112	0134	0221	C7.4	SF	N14E77		
09 May	0452	0502	0504		SF	N11E31		2339
09 May	0520	0522	0537		SF	N10E38		2339
09 May	0541	0541	0553		SF	N10E38		2339
09 May	0601	0601	0608		SF	N16E35		2339
09 May	0801	0813	0824	C3.0	SF	N14E35		2339
09 May	0831	U0840	0842		SF	N13E35		2339
09 May	0942	U0947	A0951		SF	S18W16		2337
09 May	B0952	U1001	A1015		SF	S19W16		2337
09 May	B1011	U1013	A1020		SF	N14E29		2339
09 May	1349	1355	1434	C1.6	SF	N11E31		2339
09 May	1518	1519	1531		SF	N15E31		2339
09 May	1632	1635	1637	C1.0				2339
09 May	1840	1906	1926	C1.1				2339
10 May	0313	0328	0354	C1.1	SF	N14E22		2339
10 May	0505	0526	0544		SF	N14E23		2339
10 May	0800	0829	0900	C1.9	SF	N14E19		2339
10 May	0901	0901	0908		SF	N14E17		2339
10 May	1025	1025	1030		SF	N14E17		2339
10 May	1245	1303	1323	C2.2	SF	N12E15		2339
10 May	1456	1456	1501		SF	N14E17		2339
10 May	1638	1642	1646		SF	N15E15		2339
10 May	1704	1711	1719	C2.4	SF	N14E14		2339
10 May	2135	2155	2203	C2.4	SF	N12E09		2339
10 May	2317	2318	2320	C1.7	SF	S09E71		2344
10 May	2337	2343	2351	C2.1				2339



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 2235																		
10 Dec	S07E63	265	140	4	Hsx	1	A											
11 Dec	S12E55	260	220	9	Dsc	3	B	1				1						
12 Dec	S08E35	267	90	3	Hsx	1	A	1				1						
13 Dec	S08E23	266	100	3	Hsx	1	A											
14 Dec	S08E09	267	130	3	Cso	4	B											
15 Dec	S07W03	264	160	5	Cao	5	B											
16 Dec	S07W17	265	160	3	Cao	6	B											
17 Dec	S07W29	264	90	3	Cao	4	B											
18 Dec	S07W44	265	60	1	Cao	4	B											
19 Dec	S07W56	266	60	2	Cao	4	B					2						
20 Dec	S08W70	266	70	2	Hax	1	A											
21 Dec	S08W83	267	60	2	Hax	1	A											
								2	0	0	4	0	0	0	0	0		

Crossed West Limb.
Absolute heliographic longitude: 264

Region 2237																		
12 Dec	S14E52	250	90	9	Dso	4	B											
13 Dec	S15E41	248	120	14	Eso	7	B	1				2						
14 Dec	S14E28	248	60	8	Cso	4	B	2				4	1					
15 Dec	S13E11	250	40	2	Hsx	1	A											
16 Dec	S13W02	250	80	2	Hsx	1	A											
17 Dec	S11W14	249	40	2	Hsx	1	A											
18 Dec	S13W27	249	30	1	Hax	2	A											
19 Dec	S13W41	251	20	1	Hrx	2	A											
20 Dec	S13W55	252	plage									1						
21 Dec	S13W69	253	plage									2						
22 Dec	S13W83	253	plage															
								3	0	0	9	1	0	0	0	0		

Crossed West Limb.
Absolute heliographic longitude: 250



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 2333																		
22 Apr	N19E62	312	30	1	Hrx	1	A	1										
23 Apr	N20E51	311	30	2	Hax	2	A	1					3					
24 Apr	N20E37	312	30	2	Hax	2	A						1					
25 Apr	N20E25	310	20	2	Hax	5	A						1					
26 Apr	N20E12	310	10	1	Hrx	2	A											
27 Apr	N20W00	309	10	2	Hrx	3	A											
28 Apr	N21W12	308	10	2	Axx	3	A											
29 Apr	N22W27	309	10	2	Bxo	4	B											
30 Apr	N22W41	311	plage															
01 May	N22W55	312	plage															
02 May	N22W69	313	plage															
03 May	N22W83	314	plage															
									2	0	0		5	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 309

Region 2334																		
30 Apr	S19E11	259	20	3	Cro	4	B											
01 May	S20W03	260	plage															
02 May	S20W17	261	plage															
03 May	S20W31	262	plage															
04 May	S20W45	262	plage															
05 May	S20W59	263	plage															
06 May	S20W73	264	plage															
07 May	S20W87	265	plage															
									0	0	0		0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 260



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 2335																
30 Apr	S15E76	194	30	2	Hsx	3	A	1								
01 May	S15E63	194	70	6	Dao	3	B	1				1				
02 May	S15E52	192	220	8	Dai	15	B					6				
03 May	S16E37	194	170	10	Dac	20	B	5				12				
04 May	S15E24	192	310	11	Eac	30	BG	4				9	1			
05 May	S16E11	192	280	11	Ekc	25	BG	8	2			10	1	1		
06 May	S13W03	193	220	13	Eac	28	BG	2				8				
07 May	S16W17	195	180	13	Eac	27	B									
08 May	S16W31	195	120	13	Eai	15	B									
09 May	S16W42	193	40	11	Cao	8	B									
10 May	S15W59	197	30	5	Cro	4	B									
								21	2	0	46	2	1	0	0	

Still on Disk.

Absolute heliographic longitude: 193

Region 2336																
03 May	N13E12	219	10	4	Bxo	3	B									
04 May	N13W00	216	30	5	Dro	9	B									
05 May	N13W14	218	40	5	Dso	10	B									
06 May	N10W28	218	30	5	Cro	7	B									
07 May	N11W44	222	10	2	Axx	3	A									
08 May	N13W57	221	10	1	Bxo	2	B									
09 May	N13W71	222	plage													
10 May	N13W85	223	plage													
								0	0	0	0	0	0	0	0	

Still on Disk.

Absolute heliographic longitude: 216



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 2337																		
03 May	S16E56	175	10	2	Axx	2	A											
04 May	S16E42	173	10	2	Bxo	2	B											
05 May	S17E28	175	10	2	Bxo	2	B											
06 May	S15E15	175	10	3	Cso	3	B											
07 May	S18E03	175	30	4	Cao	5	B					2						
08 May	S18W11	175	10	4	Bxo	3	B											
09 May	S17W23	174	20	4	Cro	4	B					2						
10 May	S16W37	175	30	5	Cso	4	B											
								0	0	0	4	0	0	0	0			

Still on Disk.

Absolute heliographic longitude: 175

Region 2338																		
03 May	N04E56	175	10	1	Axx	2	A											
04 May	N04E42	173	20	5	Bxo	4	B	1				2						
05 May	N03E29	173	70	7	Dso	7	B	1				1						
06 May	N04E15	174	90	8	Dao	7	B											
07 May	N03E02	176	40	8	Dao	4	B											
08 May	N04W11	175	50	8	Dso	7	B											
09 May	N05W24	175	20	8	Cro	4	B											
10 May	N05W39	177	plage															
								2	0	0	3	0	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 176

Region 2339																		
05 May	N12E70	133	250	11	Ekc	5	BG	5	2	1	3							
06 May	N12E59	131	590	17	Fkc	15	BG	6	1		10	1						
07 May	N13E47	131	730	17	Fkc	20	BG	8			15	1						
08 May	N13E35	129	900	21	Fkc	32	BG	8			6	1						
09 May	N12E24	127	840	20	Fkc	40	BG	4			10							
10 May	N13E08	130	820	22	Fkc	35	BG	6			10							
								37	3	1	54	3	0	0	0	0		

Still on Disk.

Absolute heliographic longitude: 130



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 2340

07 May	S06E65	113	30	1	Hrx	1	A										
08 May	S07E52	112	50	3	Cao	4	B										
09 May	S09E38	113	40	3	Cao	5	B										
10 May	S08E26	112	20	3	Cao	3	B										
									0	0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 112

Region 2341

07 May	S19E73	105	60	1	Hsx	1	A										
08 May	S20E60	104	90	2	Hsx	1	A										
09 May	S20E47	104	70	2	Hsx	1	A										
10 May	S19E33	105	80	2	Hsx	1	A										
									0	0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 105

Region 2342

09 May	N18E63	88	30	4	Cro	4	B										
10 May	N18E48	90	30	4	Cro	4	B										
									0	0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 90

Region 2343

10 May	N10E39	99	20	2	Cro	2	B										
									0	0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 99

Region 2344

10 May	S10E71	67	30	3	Hax	1	A	1				1					
								1	0	0	1	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 67

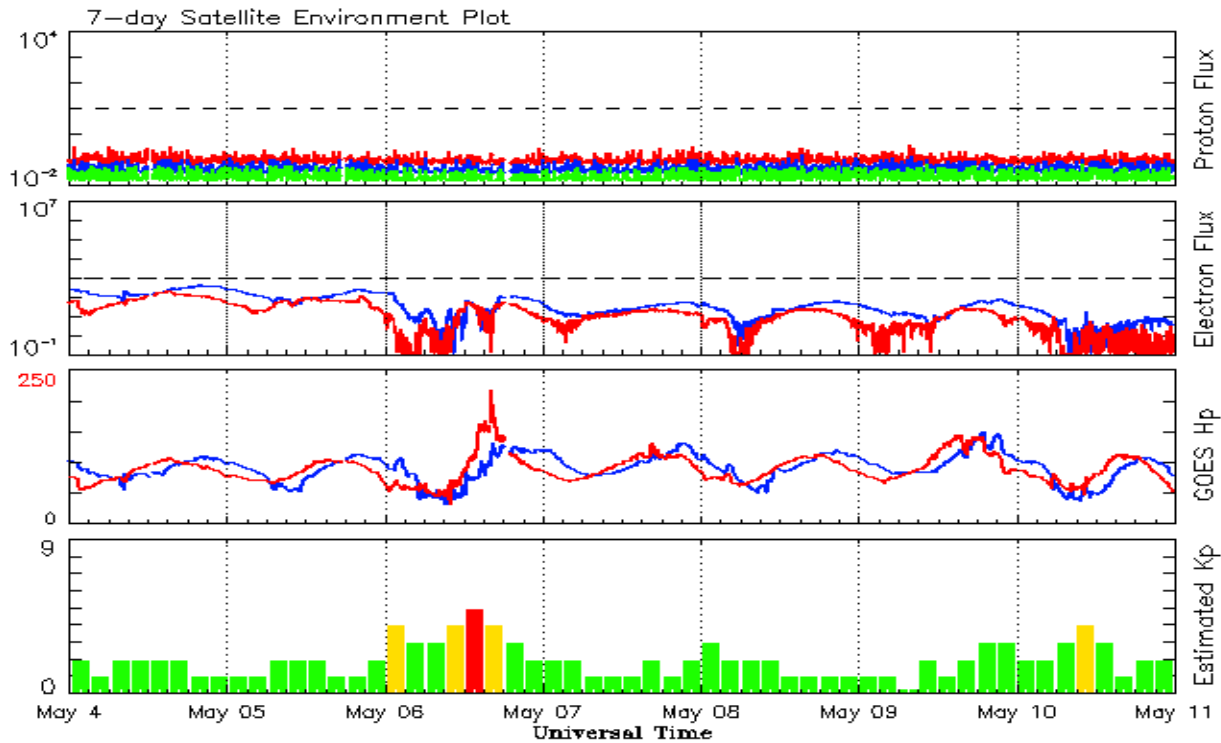


Recent Solar Indices (preliminary)
Observed monthly mean values

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
2013									
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	78.3	170.3	138.6	12	6.9
March	141.1	91.9	0.65	123.2	80.8	149.9	140.8	6	7.2
April	130.5	84.7	0.65	124.8	81.9	144.3	143.5	9	7.5
May	116.8	75.2	0.64	122.3	80.5	130.0	144.7	7	7.9
June	107.7	71.0	0.66	121.4	79.7	122.2	145.5	7	8.4
July	113.6	72.4	0.64	120.4	78.5	137.3	145.2	5	8.8
August	106.2	74.6	0.70	115.1	75.5	124.7	142.8	9	8.9
September	127.4	87.6	0.69	107.4	70.8	146.1	140.1	11	9.3
October	92.0	60.6	0.66	101.7	67.3	153.7	138.4	10	9.9
November	101.8	70.2	0.69			155.3		10	
December	120.0	76.7	0.65			158.7		12	
2015									
January	101.2	67.0	0.66			141.7		10	
February	70.6	44.8	0.63			128.8		10	
March	61.7	38.4	0.62			126.0		17	
April	72.5	54.4	0.75			129.2		12	

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 04 May 2015*

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.

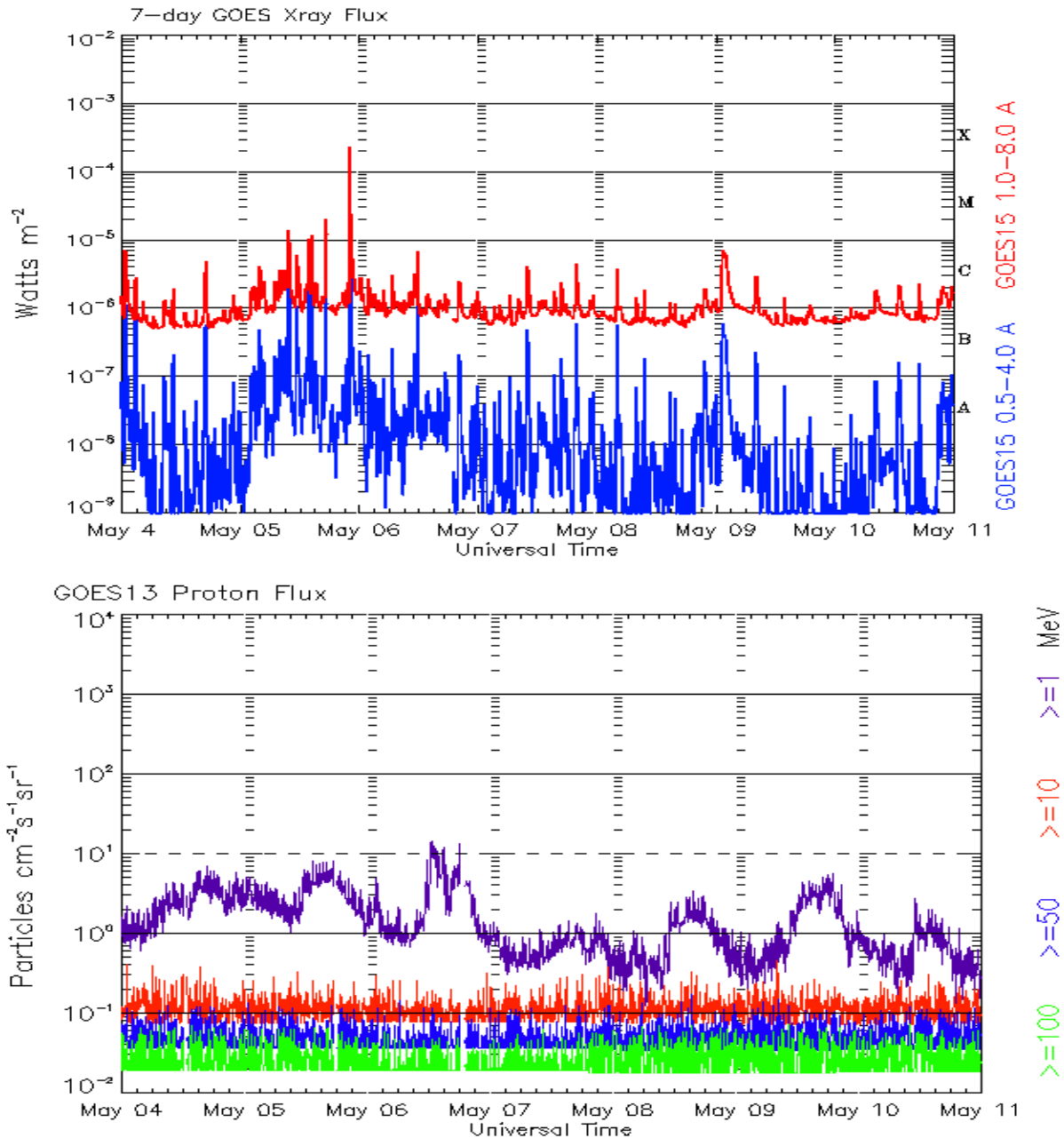
The electron flux plot contains the five-minute averaged integral electron flux (electrons/cm²-sec -sr) with energies greater than 2 MeV by the SWPC Primary GOES satellite.

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.

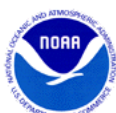




*Weekly GOES Satellite X-ray and Proton Plots
Week Beginning 04 May 2015*

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.



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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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