

Solar activity was high. There were a total of seven M-class flares during the period. The largest event was an M4.2/Sf flare (R1-Minor) from Region 3323 (S07, L=100, class/area = Ehi/320 on 04 June). Regions 3310 (S20, L=284, class/area = Cho/480 on 24 May), 3315 (S16, L=233, class/area = Ekc/630 on 29 May), 3319 (S19, L=199, class/area = Dhi/300 on 31 May), and 3324 (N15, L=159, class/area = Bxo/20 on 02 June) also produced M-class flaring below the M5 level. The remaining numbered active regions on the visible disk were either quiet or only produced C-class events.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit reached moderate levels each day of the highlight period.

Geomagnetic field activity ranged from quiet to active levels. Active levels were reached on 01 and 04 June, with unsettled conditions observed on 31 May as a result of recurrent CH HSS influence. Quiet levels were reported for the remainder of the period.

Space Weather Outlook **05 June - 01 July 2023**

Solar activity is likely to be at low to moderate levels (R1-R2, Minor-Moderate) throughout the outlook period, due to several complex regions currently on the visible disk and the anticipated return of several regions that have produced moderate level activity currently on the farside of the Sun.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to reach high levels on 05-10 and 19-24 June in response to elevated wind speeds from multiple, recurrent CH HSSs. The remainder of the outlook period is anticipated to be at moderate levels.

Geomagnetic field activity is expected to range from quiet to G1 (Minor) geomagnetic storm levels. G1 conditions are likely on 18 June; active levels are likely on 12, 19-20, and 28 June; unsettled conditions are likely on 05-06, 11, 13, 21, 27 June and 01 July due to recurrent CH HSS influence. Quiet conditions are expected for the remainder of the outlook period.



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
29 May	154	153	1320	B9.2	4	0	0	10	0	0	0	0
30 May	162	144	990	C1.3	4	3	0	3	1	0	0	0
31 May	161	147	1590	C1.8	16	3	0	10	0	0	0	0
01 June	164	143	1160	C1.5	9	0	0	23	0	0	0	0
02 June	162	147	1070	C1.3	4	1	0	9	0	0	0	0
03 June	165	112	880	C1.4	9	0	0	7	0	0	0	0
04 June	168	110	930	C1.5	10	0	0	16	1	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	>2MeV
	29 May	3.1e+04	2.4e+04
30 May	3.4e+04	2.3e+04	1.6e+07
31 May	3.9e+04	2.3e+04	1.0e+07
01 June	3.1e+05	2.3e+04	3.7e+06
02 June	7.1e+05	2.3e+04	4.1e+06
03 June	2.2e+05	2.2e+04	8.5e+06
04 June	1.2e+05	2.2e+04	2.8e+06

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	29 May	5	1-1-1-1-2-1-2-2	2	1-0-0-1-1-1-1-1	4
30 May	6	1-0-2-2-3-1-1-2	3	1-0-1-2-1-1-1-1	5	1-1-2-1-1-1-1-2
31 May	11	3-2-3-2-1-3-2-3	12	2-3-4-2-0-4-2-2	10	2-2-3-2-2-3-3-3
01 June	14	3-3-3-3-4-2-2-2	20	3-3-4-3-5-4-1-2	13	4-3-3-2-3-3-2-2
02 June	8	2-2-2-2-3-2-1-2	4	1-2-3-1-0-0-1-0	5	2-2-2-1-1-1-1-2
03 June	5	1-2-1-2-2-1-1-2	2	1-1-1-1-0-0-0-1	5	2-2-1-2-1-0-1-2
04 June	11	2-2-2-3-3-3-3-2	12	2-2-3-4-3-1-3-1	9	2-2-2-3-2-2-4-2

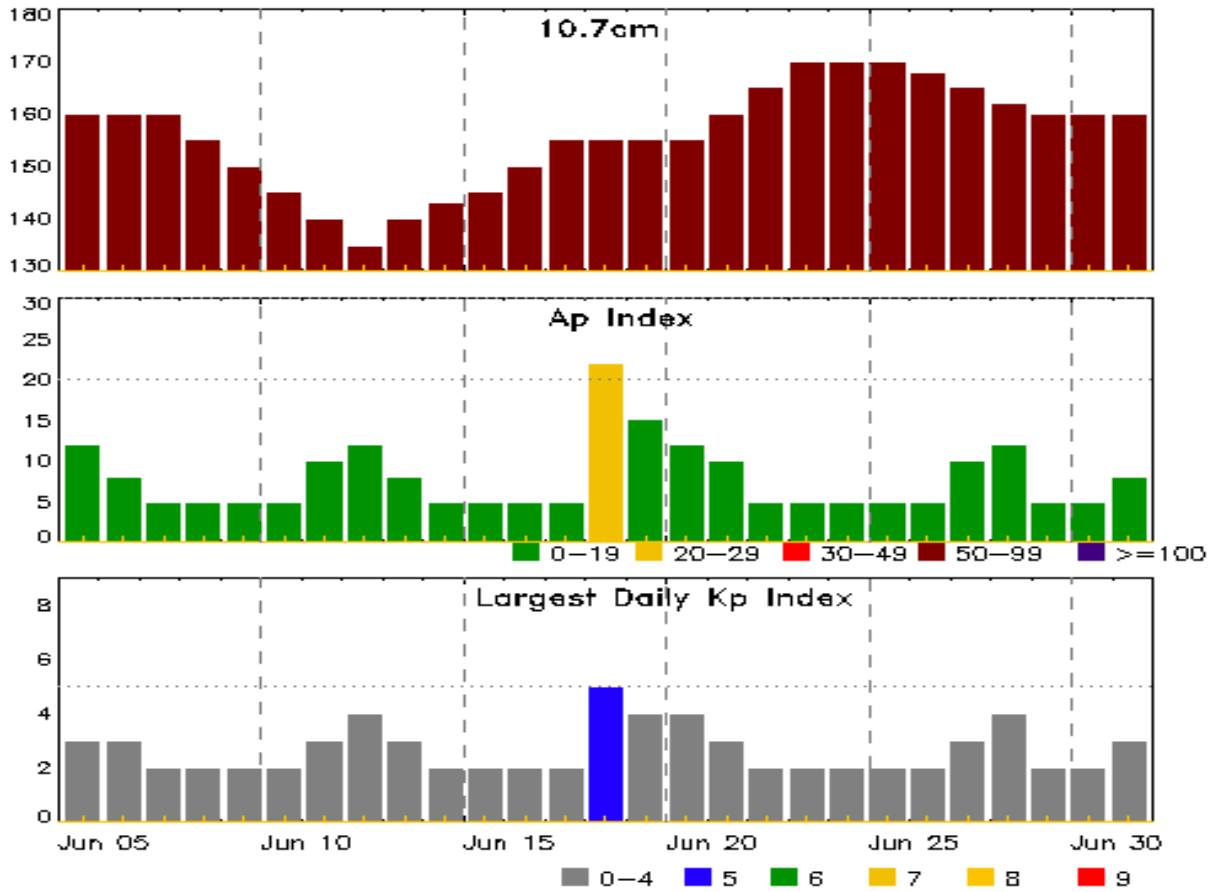


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
30 May 1109	SUMMARY: 10cm Radio Burst	30/1020 - 1020
30 May 2047	WATCH: Geomagnetic Storm Category G1 predicted	
01 Jun 0115	WARNING: Geomagnetic K = 4	01/0116 - 0900
01 Jun 0247	ALERT: Geomagnetic K = 4	01/0245
01 Jun 0853	EXTENDED WARNING: Geomagnetic K = 4	01/0116 - 1500
02 Jun 1946	WATCH: Geomagnetic Storm Category G1 predicted	
04 Jun 1906	WARNING: Geomagnetic K = 4	04/1905 - 05/0900
04 Jun 2102	ALERT: Geomagnetic K = 4	04/2059



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
05 Jun	160	12	3	19 Jun	155	15	4
06	160	8	3	20	155	12	4
07	160	5	2	21	160	10	3
08	155	5	2	22	165	5	2
09	150	5	2	23	170	5	2
10	145	5	2	24	170	5	2
11	140	10	3	25	170	5	2
12	135	12	4	26	168	5	2
13	140	8	3	27	165	10	3
14	143	5	2	28	162	12	4
15	145	5	2	29	160	5	2
16	150	5	2	30	160	5	2
17	155	5	2	01 Jul	160	8	3
18	155	22	5				



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	IV
30 May	0754	0810	0819	M1.2	0.010	SF	N00E00		3310			
30 May	1015	1022	1029	M1.3	0.006				3310		210	
30 May	1336	1338	1341	M1.4	0.003	1B	S20W41		3315			
31 May	0424	0438	0444	M1.3	0.009				3323			
31 May	1223	1226	1230	M1.0	0.002				3319			
31 May	2214	2252	2312	M4.2	0.100	SF	S07E81		3323			
02 Jun	0232	0241	0245	M1.5	0.004				3324			

Flare List

Date	Time			X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
	Begin	Max	End				
29 May	0415	0433	0458	C1.7	SF	N24W23	3315
29 May	0542	0552	0614		SF	N24W23	
29 May	0616	0622	0624		SF	N24W23	
29 May	0715	0729	0743	C2.3			3320
29 May	1354	1357	1408		SF	N24W27	3318
29 May	1434	1441	1451		SF	N24W27	3318
29 May	1553	1559	1601		SF	N24W27	3318
29 May	1603	1604	1613		SF	N24W27	3318
29 May	1618	1623	A1633		SF	N25W29	3318
29 May	1819	1819	1824	C6.5	SF	S23W85	3310
29 May	2325	2336	2340	C2.1	SF	N26W40	3317
30 May	0009	0020	0026	C4.5			3310
30 May	0326	0330	0335	C2.1			3317
30 May	0356	0401	0406	C1.8			3312
30 May	0754	0810	0819	M1.2	SF	N00E00	3310
30 May	1015	1022	1029	M1.3			3310
30 May	1328	1338	1400	M1.4	1B	S20W41	3315
30 May	1448	1449	1456		SF	S11E73	3321
30 May	1629	1650	1659	C6.0			3319
30 May	1644	1648	1702		SN	S18W10	3319
31 May	0025	0102	0132	C4.3			3323
31 May	0159	0209	0217	C7.5			3323
31 May	0338	0347	0359	C3.8			3323
31 May	0424	0438	0444	M1.3			3323



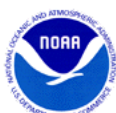
Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
31 May	B0514	0516	0526	C5.7	SF	S18W16	3319
31 May	0601	0609	0615	C5.7			3323
31 May	0735	0743	0752	C4.6			3323
31 May	0816	0831	0849	C6.1			3323
31 May	0906	0907	0909		SF	S07E84	3323
31 May	1010	1020	1035	C2.7			
31 May	1050	1103	1122	C5.3			
31 May	1223	1226	1230	M1.0			3319
31 May	1329	1333	1343	C2.9			
31 May	1423	1423	1430		SF	S20W50	3315
31 May	1455	1500	1509	C2.8			
31 May	1543	1547	1551	C2.1			
31 May	1609	1620	1636	C2.5	SN	S20W52	3315
31 May	1644	1649	1653	C3.5			
31 May	1810	1818	1827		SF	S20W53	3315
31 May	1953	2010	2027	C9.6	SF	S07E81	3323
31 May	2040	2044	2055	C6.8	SF	S07E81	3323
31 May	2109	2109	2111		SF	S07E81	3323
31 May	2159	2210	2214	M4.2	SF	S07E81	3323
31 May	2220	2247	2332		SF	S07E79	3323
01 Jun	0020	0041	0056	C9.1			3315
01 Jun	0028	0039	0052		SF	N23W78	3313
01 Jun	0030	0031	0035		SF	S17W57	3315
01 Jun	0031	0033	0037		SF	S20W56	3315
01 Jun	0125	0130	0135	C3.0	SF	S07E74	3323
01 Jun	0141	0144	0149		SF	S07E74	3323
01 Jun	0244	0246	0249		SF	S07E74	3323
01 Jun	0357	0400	0401		SF	S07E74	3323
01 Jun	B0512	U0535	A0649		SF	S07E73	3323
01 Jun	0535	0535	0537		SF	S06E70	3323
01 Jun	0545	0552	0601		SF	S17W59	3315
01 Jun	0625	0626	0632		SF	S17W64	3315
01 Jun	0644	0644	0645		SF	S07E72	3323
01 Jun	0716	0719	0721		SF	S06E71	3323
01 Jun	0808	0814	0821	C1.9	SF	N15E12	
01 Jun	0830	0831	0834		SF	S06E70	3323
01 Jun	0909	0929	1113	C3.7	SF	S18W66	3315
01 Jun	B1004	U1004	A1009		SF	S06E72	3323



Flare List

Date	Time			Optical			Rgn #
	Begin	Max	End	X-ray Class	Imp/Brtns	Location Lat CMD	
01 Jun	B1010	U1012	1033		SF	S17W66	3315
01 Jun	1113	1125	1138	C6.5	SF	S17W66	3315
01 Jun	1326	1341	1347	C2.9	SF	N14E09	3323
01 Jun	1439	1450	1501	C4.2			3323
01 Jun	1623	1624	1627		SF	S17E49	3321
01 Jun	1848	1917	1944	C4.4			3323
01 Jun	2023	2041	2058	C6.2			3323
01 Jun	2155	2155	2156		SF	S08E67	3323
01 Jun	2216	2217	2223		SF	S08E68	3323
02 Jun	0232	0241	0245	M1.5			3324
02 Jun	0501	0502	0509		SF	S06E72	3323
02 Jun	B0534	U0542	A0559		SF	S08E62	3323
02 Jun	B0602	U0648	0738		SF	S08E62	3323
02 Jun	0621	0621	0626		SF	S20W81	3315
02 Jun	0806	U0806	A0822		SF	N17E00	3324
02 Jun	0806	U0807	A0823		SF	S08E60	3323
02 Jun	1332	1332	1339		SF	S20W48	3319
02 Jun	1334	1336	1338		SF	S07E57	3323
02 Jun	1359	1411	1416	C3.9			3315
02 Jun	1514	1524	1532	C3.3			3326
02 Jun	2108	2108	2111		SF	S09E48	3323
02 Jun	2226	2242	2306	C6.3			3323
02 Jun	2354	0007	0016	C4.0			3323
03 Jun	B0000	0004	0117		SF	S07E49	3323
03 Jun	0016	0022	0028	C4.1			3323
03 Jun	0709	0716	0723	C2.0			3323
03 Jun	0753	0801	0811	C1.7			3323
03 Jun	1011	1011	1026		SF	S07E45	3323
03 Jun	1048	1103	1146		SF	N09E21	3320
03 Jun	1105	1107	1109		SF	S10E43	3323
03 Jun	1144	1149	1154	C2.9			3320
03 Jun	1313	1314	1321		SF	S08E43	3323
03 Jun	1401	1409	1414	C2.2			3319
03 Jun	1533	1534	1537		SF	S18W64	3319
03 Jun	1833	1843	1851	C3.4			
03 Jun	2048	2056	2102	C3.2			
03 Jun	2140	2147	2209	C2.8	SF	S18W66	3319
03 Jun	2302	2310	2322	C2.8			3327



Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
04 Jun	0008	0015	0019	C3.2			3319
04 Jun	0108	0118	0126	C2.8			3327
04 Jun	0154	0201	0214	C3.0			3327
04 Jun	0332	0345	0359	C8.8			3323
04 Jun	0419	0423	0427	C4.0			3323
04 Jun	0729	0730	0733		SF	S08E33	3323
04 Jun	0849	0859	0909	C3.5	SF	S10E33	3323
04 Jun	0854	U0855	0916		SF	N29E08	3323
04 Jun	0940	0949	0956	C3.4			3327
04 Jun	1120	1121	1126		SF	N10W23	3325
04 Jun	1156	1206	1214	C4.5	SF	S10E30	3323
04 Jun	1331	1331	1337		SF	S17E75	3327
04 Jun	1425	1430	1446	C5.7	1N	S17E75	3327
04 Jun	1519	1521	1526		SF	S15E79	3327
04 Jun	1655	1702	1708	C3.6			3323
04 Jun	1727	1737	1737		SF	S15E79	3327
04 Jun	1738	1752	1749		SF	S15E79	3327
04 Jun	1813	1817	1818		SF	S15E79	3327
04 Jun	1821	1822	1829		SF	S15E79	3327
04 Jun	1835	1848	1840		SF	S08E26	3323
04 Jun	1925	1927	1933		SF	S07E28	3323
04 Jun	1934	1935	1942		SF	S07E28	3323
04 Jun	1945	1945	1948		SF	N30E01	
04 Jun	2009	2010	2013		SF	N30E01	



Region Summary

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 3310																
16 May	S20E88	285	plage							1						
17 May	S20E74	285	250	5	Dho	3	B	3								
18 May	S20E59	286	250	5	Dho	5	B					2				
19 May	S20E48	284	320	7	Cko	8	B	1				1				
20 May	S20E34	285	310	5	Cko	6	B									
21 May	S20E20	286	300	6	Cko	4	B									
22 May	S20E09	283	360	6	Cho	5	B									
23 May	S19W05	284	350	7	Cho	9	B					1				
24 May	S20W18	284	480	7	Cho	11	B					1				
25 May	S18W31	284	300	7	Dhi	13	B	2				3				
26 May	S20W45	285	270	5	Cho	4	B	1								
27 May	S20W58	284	260	4	Hhx	1	A									
28 May	S20W71	284	260	4	Hhx	2	A									
29 May	S20W82	281	210	3	Hax	1	A	1				1				
								8	1	0	9	0	0	0	0	

Crossed West Limb.

Absolute heliographic longitude: 284

Region 3311																
18 May	N18E76	269	110	10	Dao	6	B	3	7							
19 May	N17E60	272	330	13	Ekc	12	BD	12	5		20	3				
20 May	N18E47	272	410	14	Ekc	18	BGD	11	7		2	2				
21 May	N18E35	271	420	14	Ekc	31	BGD	4	2		11	2	1			
22 May	N18E20	272	310	14	Eac	28	BGD	5	1		11	2				
23 May	N18E05	274	250	18	Fai	43	BGD	10	1		16	1				
24 May	N18W08	274	470	14	Eai	39	BG	3	2		10	1				
25 May	N19W20	273	340	13	Eki	22	BG	5			3	1				
26 May	N18W32	272	320	13	Eai	18	BG									
27 May	N18W46	272	180	11	Eao	8	BG	2			1					
28 May	N18W59	272	200	13	Eao	9	BG									
29 May	N18W69	268	100	12	Cao	6	B									
30 May	N21W80	266	50	2	Hsx	1	A									
								55	25	0	74	12	1	0	0	

Crossed West Limb.

Absolute heliographic longitude: 274



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 3312																		
19 May	S25E70	262	40	5	Cro	6	B	1										
20 May	S25E57	262	30	4	Cai	6	B	4	1									
21 May	S25E44	262	30	5	Cro	9	B											
22 May	S23E30	262	70	5	Cri	10	B	1				1	1					
23 May	S23E16	263	30	7	Cro	12	B	1				2						
24 May	S25E02	264	50	6	Cro	15	B	3				6						
25 May	S24W12	262	30	9	Cro	7	B	1	1			1	1					
26 May	S25W23	263	20	6	Bxo	5	B											
27 May	S25W36	262	10	5	Bxo	6	B	1				5						
28 May	S25W46	259	10	1	Axx	2	A											
29 May	S25W60	260	plage															
30 May	S25W74	261	plage					1										
31 May	S25W88	261	plage															
								13	2	0	15	2	0	0	0	0		

Crossed West Limb.
 Absolute heliographic longitude: 264

Region 3313																		
19 May	N22E75	257	30	2	Hsx	1	A											
20 May	N22E63	256	50	1	Hsx	1	A					1						
21 May	N22E50	256	60	2	Hsx	1	A											
22 May	N23E35	257	90	2	Hsx	1	A											
23 May	N23E21	258	120	4	Hsx	2	A											
24 May	N22E06	260	100	2	Hsx	2	A											
25 May	N23W03	256	100	2	Hsx	1	A											
26 May	N23W16	256	100	2	Hsx	1	A											
27 May	N23W28	254	100	2	Hsx	1	A											
28 May	N23W42	255	80	2	Hsx	1	A											
29 May	N23W54	253	60	2	Hsx	1	A											
30 May	N24W66	252	20	2	Hsx	1	A											
31 May	N21W79	251	30		Hsx	1	A											
01 Jun	N21W93	253	30		Hsx	1	A					1						
								0	0	0	2	0	0	0	0	0		

Crossed West Limb.
 Absolute heliographic longitude: 256



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 3314																
20 May	N15E36	283	20	3	Bxo	3	B									
21 May	N15E25	281	20	1	Hrx	1	A									
22 May	N15E10	282	plage				A					1				
23 May	N15W04	283	plage													
24 May	N12W17	283	130	6	Cso	15	B									
25 May	N16W31	284	120	3	Cao	7	B	5				7				
26 May	N15W45	285	110	3	Cso	6	B	1				4				
27 May	N15W58	284	120	3	Dao	4	BD	1				2				
28 May	N15W72	285	160	3	Dao	4	BD	1				1				
29 May	N14W84	283	90	2	Hax	1	A									
								8	0	0		15	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 283

Region 3315

23 May	S15E45	234	20	3	Bxo	3	B									
24 May	S17E32	234	130	5	Dai	11	B		1			8				
25 May	S16E19	234	230	8	Dai	11	B	3				5				
26 May	S17E05	235	360	10	Dki	18	B	9				9				
27 May	S17W08	234	620	11	Ekc	28	BGD	4				13				
28 May	S17W22	235	800	12	Ekc	26	BGD	4	1			4	1			
29 May	S16W34	233	630	11	Ekc	22	BG	1								
30 May	S17W48	234	540	11	Eko	14	BGD		1					1		
31 May	S17W58	231	510	9	Dko	13	BD	1				3				
01 Jun	S17W74	233	350	10	Dhi	10	B	3				7				
02 Jun	S17W88	235	160	8	Dao	5	B	1				1				
								26	3	0		50	2	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 235



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 3316																		
26 May	N09E36	204	20	4	Cro	5	B											
27 May	N09E22	204	30	5	Cro	7	B						1					
28 May	N08E08	205	30	6	Dro	5	B	1										
29 May	N09W04	203	30	5	Bxo	4	B											
30 May	N08W20	206	0	1	Axx	2	A											
31 May	N07W34	206	10		Axx	1	A											
01 Jun	N09W45	204	10	1	Axx	1	A											
02 Jun	N09W59	206	plage															
03 Jun	N09W73	207	plage															
04 Jun	N09W87	207	plage															
									1	0	0		1	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 203

Region 3317

29 May	N26W41	240	40	3	Dao	5	B	1					1					
30 May	N27W54	240	30	5	Dro	3	B	1										
31 May	N27W65	238	30	3	Cro	2	B											
01 Jun	N27W80	239	10		Axx	1	A											
									2	0	0		1	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 240

Region 3318

29 May	N25W33	232	120	4	Dao	7	B						5					
30 May	N25W46	232	110	5	Dso	3	B											
31 May	N24W58	231	120	6	Dso	2	B											
01 Jun	N25W72	232	90	6	Hax	2	A											
02 Jun	N24W84	231	90	2	Hsx	1	A											
									0	0	0		5	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 232



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 3319																				
29 May	S19W01	200	10	5	Bxo	5	B													
30 May	S18W15	201	70	8	Dai	13	B	1				1								
31 May	S19W27	199	300	10	Dhi	19	BGD	1	1			1								
01 Jun	S19W41	200	240	11	Eai	13	BG													
02 Jun	S19W56	203	240	13	Eai	13	BG					1								
03 Jun	S19W70	204	200	13	Eai	13	BG	2				2								
04 Jun	S19W82	202	220	11	Eac	7	BG	1												
								5	1	0	5	0	0	0	0	0				

Still on Disk.

Absolute heliographic longitude: 200

Region 3320																				
29 May	S11E72	127	30	1	Hrx	1	A	1												
30 May	N09E58	127	40	2	Hsx	1	A													
31 May	N10E46	126	120	4	Cso	2	B													
01 Jun	N10E31	127	30	9	Cso	2	B													
02 Jun	N10E20	127	20	9	Cso	3	B													
03 Jun	N10E07	127	30	8	Cso	4	B	1				1								
04 Jun	N10W04	124	30	9	Cso	5	B													
								2	0	0	1	0	0	0	0	0				

Still on Disk.

Absolute heliographic longitude: 124

Region 3321																				
30 May	S16E66	119	120	2	Hsx	1	A					1								
31 May	S15E52	120	260	5	Hhx	3	A													
01 Jun	S15E41	118	210	4	Hax	2	A					1								
02 Jun	S15E27	120	180	3	Hax	2	A													
03 Jun	S15E13	121	180	5	Hax	1	A													
04 Jun	S15E01	119	170	3	Hsx	1	A													
								0	0	0	2	0	0	0	0	0				

Still on Disk.

Absolute heliographic longitude: 119



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

Region 3322

30 May	N16W38	224	10	3	Bxo	5	B										
31 May	N17W52	225	10	2	Bxo	1	B										
01 Jun	N17W66	225	20	3	Cro	3	B										
02 Jun	N16W79	226	0		Axx	1	A										
								0	0	0	0	0	0	0	0	0	

Crossed West Limb.
Absolute heliographic longitude: 224

Region 3323

31 May	S05E68	104	200	2	Dao	3	B	8	2		6						
01 Jun	S08E57	101	170	10	Dac	8	BG	5			12						
02 Jun	S07E45	102	230	14	Esi	13	BG	2			6						
03 Jun	S07E32	102	310	13	Ekc	13	BG	3			4						
04 Jun	S07E20	100	320	14	Ehi	18	BG	5			7						
								23	2	0	35	0	0	0	0		

Still on Disk.
Absolute heliographic longitude: 100

Region 3324

02 Jun	N15W12	159	20	5	Bxo	6	B		1		1						
03 Jun	N15W25	159	10	5	Bxo	6	B										
04 Jun	N11W38	158	plage														
								0	1	0	1	0	0	0	0	0	

Still on Disk.
Absolute heliographic longitude: 159

Region 3325

02 Jun	N11W02	149	10	3	Bxo	2	B										
03 Jun	N11W16	150	30	3	Cao	4	B										
04 Jun	N11W30	150	20	2	Hrx	1	A				1						
								0	0	0	1	0	0	0	0	0	

Still on Disk.
Absolute heliographic longitude: 149



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 3326

02 Jun	N25E73	74	120	1	Hsx	1	A	1									
03 Jun	N25E59	75	120	1	Hsx	1	A										
04 Jun	N29E46	74	70	2	Hsx	1	A										
								1	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 74

Region 3327

03 Jun	S14E81	53	plage					1									
04 Jun	S14E67	53	100	4	Dao	7	B	4			6	1					
								5	0	0	6	1	0	0	0		

Still on Disk.

Absolute heliographic longitude: 53



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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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