

Solar activity ranged from low to high levels throughout the period. Region 3697 (S18, L=350, class/area=Eki/420 on 30 May) was the most productive region this period and produced five X-class flares, and seven M-class flares; the largest of which was an X2.8 flare at 27/0708 UTC. Region 3691 (N25, L=042, class/area=Ekc/480 on 27 May) produced three M-class events and Region 3695 (N27, L=028, class/area=Cao/30 on 01 Jun) produced a single M-class flare. Other notable activity included a long-duration X1.4/2b flare at 29/1437 UTC from Region 3697, with accompanying Type II and IV radio emissions, and an Earth-directed partial halo CME that arrived on 31 May. Additionally, an impulsive X1.0/2b flare at 01/1836 UTC and a long-duration M7.3 flare at 01/1939 UTC, both from Region 3697, resulted in a CME that is likely to glance by Earth on 04 Jun.

No proton events were observed at geosynchronous orbit.

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

Geomagnetic field activity was at quiet and quiet to unsettled levels throughout much of the period. An isolated period of G1 (Minor) geomagnetic storming was observed early on 31 May due to CME activity.

### **Space Weather Outlook** **03 June - 29 June 2024**

Solar activity is likely to reach moderate and high levels throughout the period, with M-class flares likely and a varying chance for X-class flares through 29 Jun.

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 throughout the period.

Geomagnetic field activity is likely to reach G1 (Minor) geomagnetic storm levels on 04 Jun, and active levels on 05 Jun, due to the anticipated glancing-blow arrival of the 01 Jun CME. Active conditions are expected on 09 Jun due to CH HSS influences. Quiet and quiet to unsettled levels are expected to prevail throughout the remainder of the outlook period.



### *Daily Solar Data*

Date	Radio Flux 10.7cm	Sun spot No.	Sunspot Area (10 <sup>-6</sup> hemi.)	X-ray Background Flux	Flares							
					X-ray			Optical				
					C	M	X	S	1	2	3	4
27 May	170	116	830	C2.4	8	0	1	18	0	0	0	0
28 May	166	141	950	C2.6	27	0	0	8	0	0	0	0
29 May	171	131	820	C3.6	3	6	1	23	1	3	1	0
30 May	175	144	860	C1.8	2	1	0	4	1	0	0	0
31 May	179	135	800	C1.5	15	1	1	8	2	1	0	0
01 June	188	194	1130	C1.8	12	1	2	10	0	1	0	0
02 June	180	186	1130	C1.9	15	2	0	18	0	0	0	0

### *Daily Particle Data*

Date	Proton Fluence (protons/cm <sup>2</sup> -day -sr)		Electron Fluence (electrons/cm <sup>2</sup> -day -sr)	
	>1 MeV	>10 MeV	>2MeV	
	27 May	1.8e+05	1.6e+04	6.1e+06
28 May	1.9e+05	1.6e+04	7.5e+06	
29 May	2.5e+05	1.6e+04	7.9e+06	
30 May	1.7e+06	1.7e+04	6.6e+06	
31 May	1.2e+06	1.6e+04	1.8e+06	
01 June	3.1e+05	1.5e+04	3.0e+06	
02 June	3.1e+05	1.5e+04	3.6e+06	

### *Daily Geomagnetic Data*

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	27 May	9	1-1-2-3-3-2-2-3	15	0-2-2-6-3-1-1-1	8
28 May	7	3-2-2-2-2-1-2-1	3	2-2-2-0-0-0-1-0	6	3-2-2-1-1-1-1-1
29 May	10	1-1-2-2-2-4-3-2	3	0-1-1-0-1-1-2-1	6	1-1-2-2-1-2-2-2
30 May	10	1-2-2-2-3-3-2-3	11	1-2-1-2-4-4-2-2	8	1-2-2-2-2-3-2-3
31 May	14	3-5-2-2-3-2-2-2	18	3-5-4-3-4-2-1-1	12	3-5-3-2-2-2-2-2
01 June	6	1-1-1-2-3-2-2-0	6	1-1-3-2-2-2-1-0	5	2-1-1-1-2-1-1-0
02 June	5	1-0-1-2-2-1-2-2	2	0-1-0-1-1-1-1-1	4	1-1-1-1-1-1-2-2



## *Alerts and Warnings Issued*

<b>Date &amp; Time of Issue UTC</b>	<b>Type of Alert or Warning</b>	<b>Date &amp; Time of Event UTC</b>
27 May 0704	ALERT: X-ray Flux exceeded M5	27/0700
27 May 0722	SUMMARY: 10cm Radio Burst	27/0656 - 0705
27 May 0731	ALERT: Type II Radio Emission	27/0659
27 May 0739	ALERT: Type IV Radio Emission	27/0705
27 May 0748	SUMMARY: X-ray Event exceeded M5	27/0649 - 0725
27 May 1052	WARNING: Geomagnetic K = 4	27/1051 - 1500
29 May 1425	ALERT: X-ray Flux exceeded M5	29/1422
29 May 1441	ALERT: Type II Radio Emission	29/1426
29 May 1454	SUMMARY: 10cm Radio Burst	29/1421 - 1424
29 May 1530	ALERT: Type IV Radio Emission	29/1448
29 May 1549	SUMMARY: X-ray Event exceeded X1	29/1411 - 1538
29 May 1842	ALERT: X-ray Flux exceeded M5	29/1840
29 May 1856	SUMMARY: X-ray Event exceeded M5	29/1832 - 1845
29 May 2126	WATCH: Geomagnetic Storm Category G2 predicted	
30 May 1632	WARNING: Geomagnetic K = 4	30/1631 - 2100
31 May 0233	WARNING: Geomagnetic K = 4	31/0235 - 1500
31 May 0446	ALERT: Geomagnetic K = 4	
31 May 0500	WARNING: Geomagnetic K = 5	31/0500 - 1200
31 May 0519	ALERT: Geomagnetic K = 5	
31 May 2203	ALERT: X-ray Flux exceeded M5	31/2201
31 May 2221	SUMMARY: X-ray Event exceeded X1	31/2152 - 2209
01 Jun 0850	ALERT: X-ray Flux exceeded M5	01/0849
01 Jun 0907	SUMMARY: 10cm Radio Burst	01/0845 - 0846
01 Jun 0915	SUMMARY: X-ray Event exceeded X1	01/0826 - 0858
01 Jun 1836	ALERT: X-ray Flux exceeded M5	01/1834
01 Jun 1902	SUMMARY: X-ray Event exceeded X1	01/1824 - 1850
01 Jun 1926	ALERT: X-ray Flux exceeded M5	01/1924
01 Jun 1934	ALERT: Type II Radio Emission	01/1920
01 Jun 1949	ALERT: Type IV Radio Emission	01/1927



### *Alerts and Warnings Issued*

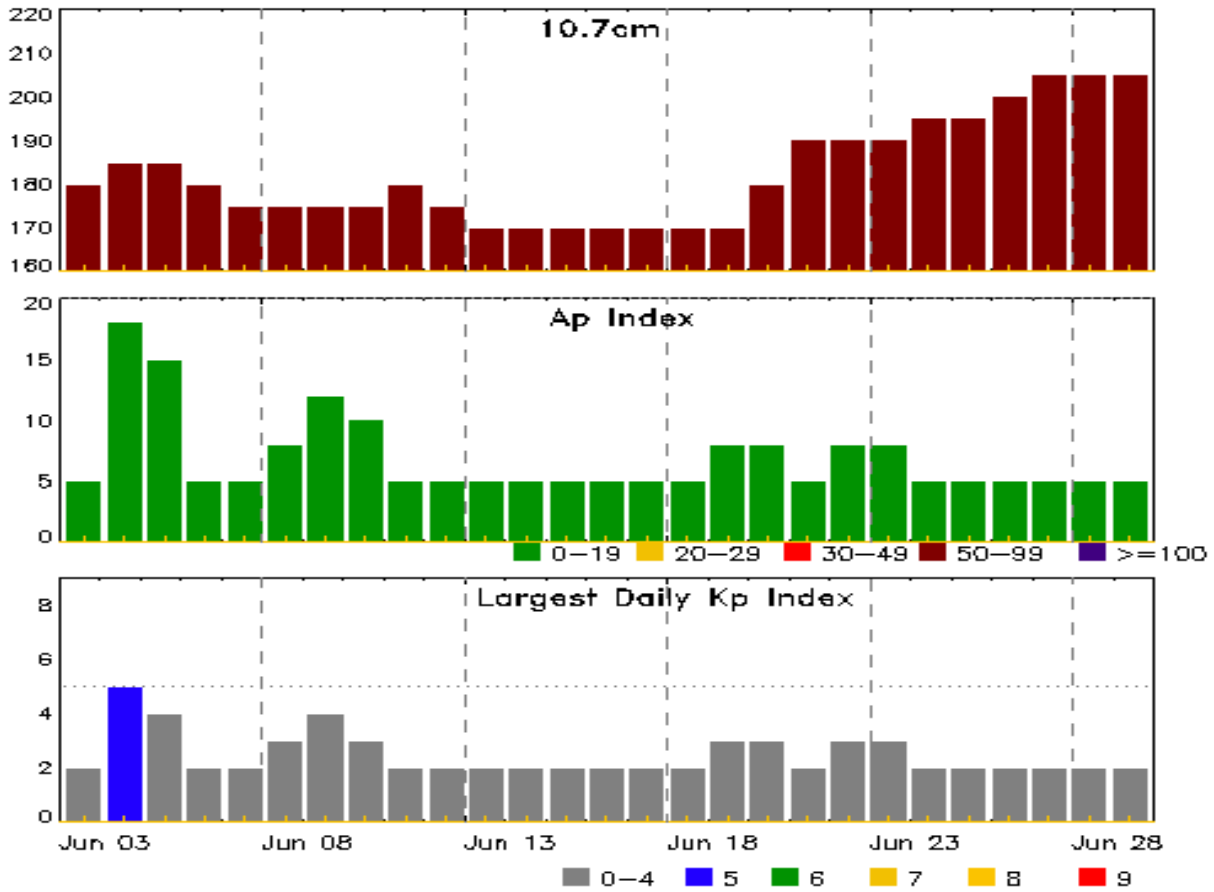
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<b>Date &amp; Time of Issue UTC</b>	<b>Type of Alert or Warning</b>	<b>Date &amp; Time of Event UTC</b>
01 Jun 2104	SUMMARY: X-ray Event exceeded M5	01/1903 - 2028
02 Jun 2010	WATCH: Geomagnetic Storm Category G1 predicted	

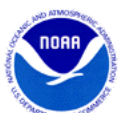
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## Twenty-seven Day Outlook



Date	Radio Flux 10.7cm	Planetary A Index	Largest Kp Index	Date	Radio Flux 10.7cm	Planetary A Index	Largest Kp Index
03 Jun	180	5	2	17 Jun	170	5	2
04	185	18	5	18	170	5	2
05	185	15	4	19	170	8	3
06	180	5	2	20	180	8	3
07	175	5	2	21	190	5	2
08	175	8	3	22	190	8	3
09	175	12	4	23	190	8	3
10	175	10	3	24	195	5	2
11	180	5	2	25	195	5	2
12	175	5	2	26	200	5	2
13	170	5	2	27	205	5	2
14	170	5	2	28	205	5	2
15	170	5	2	29	205	5	2
16	170	5	2				



### *Energetic Events*

Date	Time			X-ray	Optical Information				Peak		Sweep Freq		
	Begin	Max	Half	Class	Integ Flux	Imp/ Brtns	Location		Rgn #	Radio Flux		Intensity	
			Max				Lat	CMD		245	2695	II	IV
27 May	0649	0708	0725	X2.8	0.330				3697	4900	300	3	1
29 May	0057	0106	0112	M1.3	0.008	SF	S18E71		3697				
29 May	0633	0645	0658	M1.4	0.017	SF	S20E68		3697				
29 May	1109	1121	1126	M1.8	0.010	2N	N26E30		3695				
29 May	1245	1255	1306	M2.5	0.008	1N	S21E71		3697				
29 May	1411	1437	1538	X1.4	0.550	2B	S21E66		3697	2300	300	2	1
29 May	1815	1828	1832	M2.7	0.025				3691				
29 May	1832	1841	1845	M5.7	0.032	2B	N28E12		3691				
30 May	0649	0713	0746	M1.0	0.026	1F	N28E07		3691				
31 May	1106	1120	1130	M1.0	0.009	1N	S21E57		3697				
31 May	2152	2203	2209	X1.1	0.045	2B	S17E32		3697		170		
01 Jun	0826	0848	0858	X1.4	0.092				3697		210		
01 Jun	1824	1836	1849	X1.0	0.081	2B	S17E24		3697	240	310		
01 Jun	A1903	1939	A2028	M7.3	0.270				3697	1600		2	
02 Jun	0441	0450	0505	M1.2	0.013				3697				
02 Jun	0840	0850	0856	M2.0	0.010	SF	S19E14		3697				

### *Flare List*

Date	Time			X-ray Class	Optical		
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	Rgn #
27 May	0112	0124	0134	C3.8			3691
27 May	0140	0150	0200	C4.4			3691
27 May	0244	0317	0344	C6.9			
27 May	0416	0425	0433	C5.5	SF	N28E48	3691
27 May	0520	U0546	0610	C2.8	SF	N28E48	3691
27 May	0649	0708	0725	X2.8			3697
27 May	0802	0807	0816		SF	N28E44	3691
27 May	1016	1022	1029		SF	N28E44	3691
27 May	1041	1056	1100		SF	N28E44	3691
27 May	1222	1227	1233	C6.7			3697
27 May	1341	1342	1344		SF	N27E41	3691
27 May	1357	1357	1404		SF	N27E40	3691
27 May	1409	1422	1442		SF	N27E40	3691
27 May	1508	1616	1704		SF	N28E54	3695
27 May	1533	1534	1537		SF	N23E41	3691



## *Flare List*

Date	Time			X-ray Class	Imp/ Brtns	Optical		Rgn #
	Begin	Max	End			Location Lat CMD		
27 May	1551	1614	1556		SF	N23E41		3691
27 May	1637	1641	1704		SF	N25E39		3691
27 May	1746	1751	1756	C4.7	SF	N21E39		3691
27 May	1815	1912	1954	C8.9	SF	N28E39		3691
27 May	1955	1959	2005		SF	N28E39		3691
27 May	2000	2001	2003		SF	S07W06		3692
27 May	2025	2025	2028		SF	N27E35		3691
27 May	2319	2323	2331		SF	N27E35		3691
28 May	B0000	0000	0019		SF	N27E35		3691
28 May	0110	0113	A0118		SF	N27E35		3691
28 May	0125	0133	0141	C7.6				3697
28 May	0317	0324	0331	C3.6				3697
28 May	0337	0343	0356	C7.8				3697
28 May	0500	0509	0517	C4.3				3697
28 May	0628	0635	0638	C3.0				3697
28 May	0638	0643	0648	C4.1				3697
28 May	0740	0747	0752	C3.5				3697
28 May	0752	0756	0809	C3.8				3697
28 May	0858	0912	0931	C4.9				3691
28 May	0930	0937	0944	C5.6				3697
28 May	1017	1025	1032	C7.5				3697
28 May	1040	1046	1051	C8.5				3697
28 May	1153	1202	1216	C5.4				3697
28 May	1216	1229	1241	C5.6	SF	N27E29		3691
28 May	B1307	U1312	A1332		SF	N26E33		3691
28 May	1336	1345	1354	C4.5				3697
28 May	B1343	U1349	A1350		SF	N27E28		3691
28 May	1354	1401	1405	C5.1				3697
28 May	1452	1455	1501	C6.0				3697
28 May	1519	1524	1531	C4.7				3697
28 May	1555	1602	1609	C3.4				3697
28 May	1758	1806	1812	C3.9				3697
28 May	1837	1841	1849	C8.9	SF	S18E71		3697
28 May	1924	1925	1929		SF	N26E23		3691
28 May	1943	1949	1955	C7.2				3697
28 May	2107	2112	2121	C3.8				3697
28 May	2121	2128	2133	C3.7				3691
28 May	2136	2136	2143		SF	N27E23		3691



## *Flare List*

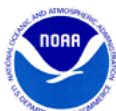
Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
28 May	2150	2158	2219	C4.2			3697
28 May	2219	2222	2226	C3.9			3697
28 May	2327	2337	2346	C8.0			3697
29 May	0012	0017	0025	C6.7			3697
29 May	0025	0036	0048	C6.5			3697
29 May	0039	0040	0120		SF	N27E36	3695
29 May	0057	0106	0112	M1.3	SF	S18E71	3697
29 May	B0522	U0528	0531		SF	N28E19	3691
29 May	0543	0545	0547		SF	S21E76	3697
29 May	0633	0645	0658	M1.4	SF	S20E68	3697
29 May	B0702	U0703	A0726		SF	N28E34	3695
29 May	B0711	U0727	A0734		SF	N28E19	3691
29 May	B0741	U0744	A0758		SF	N28E18	3691
29 May	0924	0932	0939	C8.2			3697
29 May	1109	1121	1126	M1.8	2N	N26E30	3695
29 May	1127	1128	1133		SF	N27E17	3691
29 May	1145	1158	1218		SF	N28E16	3691
29 May	1225	1227	A1235		SF	N27E15	3691
29 May	1245	1255	1306	M2.5	1N	S21E71	3697
29 May	1255	U1255	1308		SF	N28E16	3691
29 May	1309	1310	1319		SF	N28E16	3691
29 May	1411	1423	1709	X1.4	3N	S19E64	3697
29 May	1422	1422	1425		SF	N28E15	3691
29 May	1428	1430	1436		SF	N28E15	3691
29 May	1620	1622	1629		SF	N28E13	3691
29 May	1625	1641	1656		SF	S19E64	3697
29 May	1734	1836	2043		2B	N28E12	3691
29 May	1815	1828	1832	M2.7			3691
29 May	1831	1832	1834		SF	S18E62	3697
29 May	1832	1841	1845	M5.7			3691
29 May	1937	1937	1940		SF	S17E61	3697
29 May	2003	2010	2027		SF	S08W34	3692
29 May	2028	2035	2038		SF	S09W35	3692
29 May	2115	2120	2122		SF	N28E14	3691
29 May	2241	2246	2305		SF	N26E11	3691
30 May	0315	0336	0416	C4.9			3697
30 May	0649	0713	0746	M1.0			3691
30 May	0655	U0657	0811		SF	N28E21	3695





## *Flare List*

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/Brtns	Location Lat CMD	Rgn #
30 May	0657	U0702	0811		1F	N28E07	3691
30 May	B1044	U1044	1055		SF	N09W13	3693
30 May	1837	1846	1854	C6.8	SF	S17E53	3697
30 May	2325	2325	2331		SF	N28W01	3691
31 May	0010	0021	0030	C2.8			3697
31 May	0221	0234	0246	C7.5			3698
31 May	0327	0337	0345	C9.8			3697
31 May	0428	0438	0441	C2.6			3698
31 May	0441	0445	0449	C2.7			3698
31 May	0612	0621	0634	C2.5			3698
31 May	0634	0637	0639	C2.2			3691
31 May	0639	0648	0652	C2.6			3698
31 May	B0745	U0748	0759		SF	S21E57	3697
31 May	0835	0839	0843		SF	S21E57	3697
31 May	0855	0904	0912	C2.2			3697
31 May	0933	0936	0943		SF	S21E57	3697
31 May	1106	1120	1130	M1.0	1N	S21E57	3697
31 May	1235	1240	1248	C5.4			3691
31 May	1315	1317	1323		SF	N22E30	3698
31 May	1328	1641	1650		1F	N22E27	3698
31 May	1606	1611	1615	C8.0	SF	N26W06	3695
31 May	1636	1641	1646	C3.6			3691
31 May	1714	1725	1736	C5.6	SF	N22E28	3698
31 May	1802	1808	1825	C3.4			3697
31 May	1858	1900	1906		SF	N27W08	3691
31 May	2013	2026	2045	C3.5			3697
31 May	2033	2201	2249	X1.1	2B	S17E32	3697
31 May	2259	2300	2302		SF	N24W14	3691
01 Jun	0054	0058	0105	C2.9			3691
01 Jun	0222	0229	0232	C3.1			3691
01 Jun	0232	0239	0244	C2.9			3691
01 Jun	0254	0258	0303	C3.4			3697
01 Jun	0449	0457	0506	C3.8			3697
01 Jun	0652	0701	0708	C7.5			3697
01 Jun	0826	0848	0858	X1.4			3697
01 Jun	1252	1258	1304	C4.3			3697
01 Jun	1407	1421	1433	C4.6	SF	S16E26	3697
01 Jun	1516	1521	1525	C4.0	SF	S04W33	3700



## Flare List

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
01 Jun	1536	1543	1551	C2.8			3691
01 Jun	1628	1635	1639	C2.6			3691
01 Jun	1643	1647	1654		SF	S04W34	3700
01 Jun	1700	1705	1708		SF	S04W33	3700
01 Jun	1712	1719	1725	C2.6	SF	S04W32	3700
01 Jun	1824	1836	1849	X1.0	2B	S17E24	3697
01 Jun	1859	1902	1914		SF	S03W35	3700
01 Jun	A1903	1939	A2028	M7.3			3697
01 Jun	1935	1938	1954		SF	S03W35	3700
01 Jun	2016	2120	2155		SF	S03W36	3700
01 Jun	2224	2234	2309		SF	S03W37	3700
01 Jun	2310	2325	2332		SF	S04W38	3700
02 Jun	0005	0008	0011		SF	S18E20	3697
02 Jun	0034	0037	0048		SF	S03W38	3700
02 Jun	0143	0150	0154	C4.6			3697
02 Jun	0216	0222	0226	C4.9			3697
02 Jun	0321	0332	0337	C4.9			3700
02 Jun	0425	0432	0440	C4.4			3697
02 Jun	0441	0450	0505	M1.2			3697
02 Jun	B0616	U0626	A0654		SF	S21E57	3697
02 Jun	B0618	U0714	A0804		SF	S05W41	3700
02 Jun	0620	0628	0645	C3.5			3697
02 Jun	0758	0805	0813	C2.7	SF	S05W42	3700
02 Jun	0820	0827	0833	C3.7	SF	S19E16	3697
02 Jun	0840	0850	0856	M2.0	SF	S19E14	3697
02 Jun	0926	0933	0938	C6.0			3697
02 Jun	1024	1028	1033	C4.6			3697
02 Jun	1049	1059	1110	C5.7			3697
02 Jun	1208	1215	1232		SF	S05W44	3700
02 Jun	1236	1237	1245		SF	S19E14	3697
02 Jun	1352	1402	1410	C2.6	SF	S03W46	3700
02 Jun	1529	1530	1533		SF	S03W43	3700
02 Jun	1652	1704	1716	C4.8	SF	S16E06	3697
02 Jun	1749	1755	1804	C5.6	SF	S18E10	3697
02 Jun	1944	1944	1946		SF	S05E19	3701
02 Jun	1947	1955	2012	C2.3	SF	S18E09	3697
02 Jun	2158	2158	2208		SF	S18E07	3697
02 Jun	2228	2232	2242	C3.2	SF	S04W46	3700



### *Flare List*

Date	Time			X-ray Class	Optical		
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	Rgn #
02 Jun	2352	2353	2355		SF	S20E06	3697



### Region Summary

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

#### Region 3684

16 May	S06E51	170	10	2	Bxo	4	B											
17 May	S06E36	172	plage															
18 May	S06E21	174	plage															
19 May	S06E10	171	10	3	Bxo	3	B											
20 May	S07W04	172	20	5	Cao	5	B											
21 May	S06W19	173	80	8	Dao	8	B											
22 May	S06W32	173	80	9	Cao	10	BG											
23 May	S06W48	176	100	10	Cso	8	BG											
24 May	S07W65	179	80	7	Cso	6	BG											
25 May	S06W74	175	50	3	Hsx	1	A											
26 May	S06W89	178	plage															
								0	0	0	0	0	0	0	0	0	0	0

Crossed West Limb.  
 Absolute heliographic longitude: 172

#### Region 3685

15 May	S13E78	157	plage						2	1								
16 May	S13E64	157	180	7	Dso	7	BG	1	1									
17 May	S13E50	158	220	7	Dso	7	BG	2	1		1		1					
18 May	S13E42	155	380	12	Ehi	10	BG	2			1		1					
19 May	S13E29	152	420	13	Ehi	17	BG	1	3		1		3					
20 May	S12E15	153	350	11	Ehc	20	BG	2			3							
21 May	S12E02	151	380	11	Ehc	17	BG											
22 May	S13W09	150	400	12	Ehc	20	BG				2		1		1			
23 May	S13W22	150	400	15	Ehc	23	BG	2			1							
24 May	S13W36	150	320	11	Ehc	14	BG	1			1							
25 May	S13W49	150	210	15	Eso	9	B											
26 May	S13W62	150	270	12	Eho	5	B											
27 May	S14W75	151	150	8	Dso	3	B											
28 May	S13W90	152	110	7	Dso	3	B											
								11	7	1	10	5	2	0	0			

Crossed West Limb.  
 Absolute heliographic longitude: 151



### *Region Summary - continued*

Date	Location		Sunspot Characteristics				Flares																
	Lat CMD	Lon	Helio 10 <sup>6</sup> hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical												
								C	M	X	S	1	2	3	4								
<b>Region 3686</b>																							
17 May	S07E66	140	190	2	Hax	2	A	1															
18 May	S06E54	141	120	2	Hax	2	A																
19 May	S06E39	142	130	3	Hax	2	A																
20 May	S06E25	143	120	4	Cao	8	B	2															
21 May	S07E12	142	120	4	Cao	5	B																
22 May	S07W01	142	120	3	Cao	9	B					1											
23 May	S07W15	143	100	4	Cao	11	B																
24 May	S08W28	142	80	3	Cao	6	B																
25 May	S08W38	139	110	8	Cao	8	B	1				1											
26 May	S08W54	142	100	6	Cao	4	B																
27 May	S09W67	143	60	2	Cao	2	B																
28 May	S09W81	143	50	2	Cao	3	B																
29 May	S09W95	144	20	1	Hrx	1	A																
								4	0	0	2	0	0	0	0	0							

Crossed West Limb.  
 Absolute heliographic longitude: 142

<b>Region 3688</b>																							
21 May	S12E28	126	10	4	Bxo	3	B																
22 May	S12E14	127	plage																				
23 May	S12W00	128	plage																				
24 May	S12W14	129	plage																				
25 May	S12W28	130	plage																				
26 May	S12W42	131	plage																				
27 May	S12W56	132	plage																				
28 May	S12W71	133	plage																				
29 May	S12W85	134	plage																				
								0	0	0	0	0	0	0	0	0							

Crossed West Limb.  
 Absolute heliographic longitude: 128





### *Region Summary - continued*

Date	Location		Sunspot Characteristics					Flares															
	Lat CMD	Lon	Helio 10 <sup>-6</sup> hemi.	Area	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical											
									C	M	X	S	1	2	3	4							
<b>Region 3691</b>																							
25 May	N25E60		41	300	11	Dkc	8	BGD															
26 May	N29E48		41	570	11	Ekc	17	BGD	8				1										
27 May	N25E34		42	480	12	Ekc	15	BGD	6				16										
28 May	N27E20		42	400	12	Ekc	20	BGD	3				7										
29 May	N27E06		43	300	11	Ekc	27	BGD		2			13			1							
30 May	N27W06		42	300	10	Dkc	27	BGD		1			1	1									
31 May	N25W18		41	280	10	Dkc	21	BGD	3				2										
01 Jun	N25W32		41	220	10	Dsc	21	BG	5														
02 Jun	N25W46		42	180	10	Dso	18	BG															
									25	3	0	40	1	1	0	0							

Still on Disk.

Absolute heliographic longitude: 43

### **Region 3692**

25 May	S09E18		84	20	3	Cro	4	B														
26 May	S09E04		84	70	4	Dao	8	B														
27 May	S08W09		85	40	4	Cao	6	B					1									
28 May	S08W24		86	30	6	Cro	6	B														
29 May	S08W39		88	10	2	Axx	2	A					2									
30 May	S08W53		89	10	2	Axx	3	A														
31 May	S08W67		90	plage																		
01 Jun	S08W81		90	plage																		
									0	0	0	3	0	0	0	0	0					

Crossed West Limb.

Absolute heliographic longitude: 84

### **Region 3693**

26 May	N06E35		53	20	3	Cro	3	B														
27 May	N06E22		54	40	5	Dao	4	B														
28 May	N05E07		55	50	6	Dao	8	B														
29 May	N05W07		56	40	7	Dao	5	B														
30 May	N04W18		54	30	6	Cso	5	B					1									
31 May	N04W32		55	10	1	Hax	2	A														
01 Jun	N04W47		56	10	2	Bxo	2	B														
02 Jun	N04W62		58	plage																		
									0	0	0	1	0	0	0	0	0					

Still on Disk.

Absolute heliographic longitude: 55



### *Region Summary - continued*

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

#### **Region 3694**

26 May	S12E45	44	10	1	Axx	1	A										
27 May	S12E31	45	plage														
28 May	S12E16	46	plage														
29 May	S12E02	47	plage														
30 May	S12W12	48	plage														
31 May	S12W26	49	plage														
01 Jun	S12W40	49	plage														
02 Jun	S12W54	50	plage														
									0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 47

#### **Region 3695**

26 May	N27E60	29	20	4	Bxo	6	B										
27 May	N27E46	30	20	6	Cro	4	B				1						
28 May	N28E33	29	20	6	Cro	4	B										
29 May	N24E19	30	10	9	Bxo	8	B		1		2		1				
30 May	N27E08	28	10	8	Bxo	8	B				1						
31 May	N27W05	28	10	5	Bxo	2	B	1			1						
01 Jun	N27W19	28	30	5	Cao	5	B										
02 Jun	N27W33	29	30	5	Cao	11	B										
									1	1	0	5	0	1	0	0	0

Still on Disk.

Absolute heliographic longitude: 28

#### **Region 3696**

26 May	N09E66	23	10	1	Hrx	1	A										
27 May	N09E52	24	10	1	Hrx	1	A										
28 May	N09E38	24	10	1	Hrx	1	A										
29 May	N08E26	23	10	1	Axx	1	A										
30 May	N08E14	22	10	1	Axx	1	A										
31 May	N08W00	23	plage														
01 Jun	N08W14	23	plage														
02 Jun	N08W28	24	plage														
									0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 23





**Region Summary - continued**

Date	Location		Sunspot Characteristics					Flares												
	Lat CMD	Lon	Helio 10 <sup>-6</sup> hemi.	Area	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical								
									C	M	X	S	1	2	3	4				
<b>Region 3697</b>																				
28 May	S18E69	353	250	11	Eho	5	BG	24				1								
29 May	S18E56	353	400	14	Eki	6	BGD	3	3	1	6	1	1	1						
30 May	S18E49	350	420	14	Eki	14	BGD	2			1									
31 May	S18E35	348	380	13	Eki	18	BGD	5	1	1	3	1	1							
01 Jun	S18E21	348	380	13	Ekc	26	BGD	5	1	2	1		1							
02 Jun	S18E07	349	410	13	Ekc	33	BGD	11	2		10									
								51	7	5	22	2	3	1	0					

Still on Disk.  
Absolute heliographic longitude: 349

<b>Region 3698</b>																				
30 May	N22E36	358	50	2	Cso	5	B													
31 May	N22E24	359	50	6	Csi	11	B	6			2	1								
01 Jun	N22E10	359	160	6	Dsi	11	B													
								6	0	0	2	1	0	0	0					

Still on Disk.  
Absolute heliographic longitude: 0

<b>Region 3699</b>																				
31 May	N04W06	28	50	4	Cao	9	B													
01 Jun	N04W21	30	120	4	Dao	12	B													
02 Jun	N04W36	32	70	4	Cso	8	B													
								0	0	0	0	0	0	0	0	0				

Still on Disk.  
Absolute heliographic longitude: 28

<b>Region 3700</b>																				
01 Jun	S04W37	46	140	5	Dai	17	B	2			9									
02 Jun	S04W52	48	180	7	Dai	8	B	4			7									
								6	0	0	16	0	0	0	0					

Still on Disk.  
Absolute heliographic longitude: 46

<b>Region 3701</b>																				
01 Jun	S04E30	339	60	3	Cai	9	B													
02 Jun	S04E15	341	40	3	Cao	5	B				1									
								0	0	0	1	0	0	0	0					

Still on Disk.  
Absolute heliographic longitude: 341



***Region Summary - continued***

Date	Location		Sunspot Characteristics				Flares									
	Lat CMD	Lon	Heli 10 <sup>-6</sup> hemi.	Area	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical				
									C	M	X	S	1	2	3	4
<b><i>Region 3702</i></b>																
02 Jun	N17E71	285	50	2	Hsx	1	A	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 285



## ***Preliminary Report and Forecast of Solar Geophysical Data (The Weekly)***

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