

Solar activity reached high levels on all seven days (30 Sep - 06 Oct). There were a total of 30 R1 (Minor) flares, two R2 (Moderate) flares, and two R3 (Strong) flares. Region 3842 (S15, L=178, class/area Ekc/1150 on 04 Oct) produced the largest flare of the week, an X9.0 flare at 03/1218 UTC. This event had a Castelli-U signature, as well as Type II (est speed 582 km/s) and Type IV radio sweeps. Region 3842 also produced an X7.1/2b flare at 01/2220 UTC that had a Castelli-U radio signature and a Type II radio sweep (est speed 1246 km/s) associated with it. Additionally, Region 3842 contributed an M7.7/2n event on 30 Sep that peaked at 2359 UTC. Region 3843 (S09, L=211, class/area Eko/290 on 04 Oct) added the other R2 event, an M6.7/2b flare, at 03/2028 UTC. This event had a Type II (est speed 1241 km/s) and Type IV radio sweeps associated with it. The X7.1, X9.0, and M6.7 flares all had associated Earth-directed CMEs that were expected to impact Earth between 04-06 Oct.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal to moderate levels on all seven days (30 Sep - 06 Oct).

Geomagnetic field activity reached active levels on 30 Sep as negative polarity CH HSS influence persisted. G1 (Minor) geomagnetic storm levels were observed on 06 Oct following the likely arrival of one of several CMEs anticipated to impact earth.

Space Weather Outlook **07 October - 02 November 2024**

Solar activity is expected to range from low to moderate levels, with a slight chance for high levels. R1-R2 (Minor-Moderate) events are likely, with a slight chance for R3 or greater events, throughout the period.

No proton events are expected at geosynchronous orbit, barring significant flare activity.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at high levels on 07-08 Oct following the anticipated CME passages. Normal to moderate levels are likely to return after 09 Oct.

Geomagnetic field activity is expected to be at G2 (Moderate) storm levels on 07 Oct as CME influences persist. Unsettled to active levels are likely on 08, 22, 23 Oct due to anticipated positive polarity CH HSS influence and on 12, 26, and 27 Oct due to anticipated negative polarity CH HSS influence. Quiet to unsettled levels are otherwise expected, barring any additional CME activity.



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 September	214	150	580	C2.0	8	1	0	21	0	1	0	0
01 October	245	196	840	C2.7	8	2	1	22	1	1	0	0
02 October	275	194	1360	C3.4	10	6	0	31	2	1	0	0
03 October	312	229	1780	C6.1	2	8	1	29	0	1	0	0
04 October	291	180	3520	C4.6	1	5	0	16	3	0	0	0
05 October	277	173	3420	C5.0	9	5	0	14	1	0	0	0
06 October	265	167	2640	C3.8	3	5	0	6	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	>2MeV	
	30 September	6.3e+06	1.5e+04	4.4e+06
01 October	5.9e+05	1.5e+04	4.1e+06	
02 October	2.8e+05	1.5e+04	6.1e+06	
03 October	2.7e+05	1.5e+04	5.4e+06	
04 October	1.8e+05	1.6e+04	2.1e+06	
05 October	2.9e+05	1.6e+04	2.4e+06	
06 October	7.9e+05	1.4e+04	5.8e+06	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	30 September	9	3-1-1-1-3-3-2-2	8	4-2-1-1-1-2-2-2	11
01 October	5	1-2-2-1-2-1-2-1	3	1-2-1-0-0-2-1-1	6	2-2-2-1-1-2-2-1
02 October	6	2-2-1-2-2-1-2-1	0	2-1-2-5-5-0-1-0	7	3-2-2-2-2-1-2-1
03 October	8	0-1-1-2-4-2-2-2	7	0-1-1-3-3-2-2-1	8	1-2-2-2-3-2-2-2
04 October	6	1-1-1-1-2-2-2-3	3	1-1-1-0-1-1-1-2	8	2-2-2-1-1-2-2-3
05 October	8	1-1-2-2-3-2-3-2	4	2-0-2-1-1-1-1-1	7	3-1-2-2-2-1-2-2
06 October	13	1-1-3-2-3-3-3-4	7	1-0-2-2-2-2-2-3	6	2-1-2-2-3-3-4-5



Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
30 Sep 0117	ALERT: Geomagnetic K = 4	
30 Sep 2355	ALERT: X-ray Flux exceeded M5	30/2353
01 Oct 0026	SUMMARY: X-ray Event exceeded M5	30/2337 - 01/0023
01 Oct 2214	ALERT: X-ray Flux exceeded M5	01/2211
01 Oct 2226	ALERT: Type II Radio Emission	01/2217
01 Oct 2233	SUMMARY: 10cm Radio Burst	01/2209 - 2218
01 Oct 2238	SUMMARY: X-ray Event exceeded X1	01/2158 - 2229
02 Oct 0905	ALERT: Type II Radio Emission	02/0544
02 Oct 1701	WATCH: Geomagnetic Storm Category G3 predicted	
03 Oct 1218	ALERT: X-ray Flux exceeded M5	03/1215
03 Oct 1229	ALERT: Type II Radio Emission	03/1018
03 Oct 1229	ALERT: Type II Radio Emission	03/1218
03 Oct 1232	CANCELLATION: Type II Radio Emission	
03 Oct 1232	ALERT: Type II Radio Emission	03/1218
03 Oct 1233	ALERT: Type IV Radio Emission	03/1217
03 Oct 1236	SUMMARY: X-ray Event exceeded X1	03/1208 - 1227
03 Oct 1343	SUMMARY: 10cm Radio Burst	03/1214 - 1224
03 Oct 2013	WATCH: Geomagnetic Storm Category G3 predicted	
03 Oct 2024	ALERT: X-ray Flux exceeded M5	03/2022
03 Oct 2036	ALERT: Type II Radio Emission	03/2012
03 Oct 2043	SUMMARY: X-ray Event exceeded M5	03/2009 - 2040
04 Oct 1857	WATCH: Geomagnetic Storm Category G3 predicted	
04 Oct 2259	WARNING: Geomagnetic K = 4	04/2300 - 05/1500
06 Oct 1507	WARNING: Geomagnetic K = 4	06/1506 - 07/0900
06 Oct 2104	ALERT: Geomagnetic K = 4	
06 Oct 2218	WARNING: Geomagnetic K = 5	06/2220 - 07/0600
06 Oct 2241	ALERT: Geomagnetic K = 5	
06 Oct 2244	CANCELLATION: Geomagnetic K = 5	

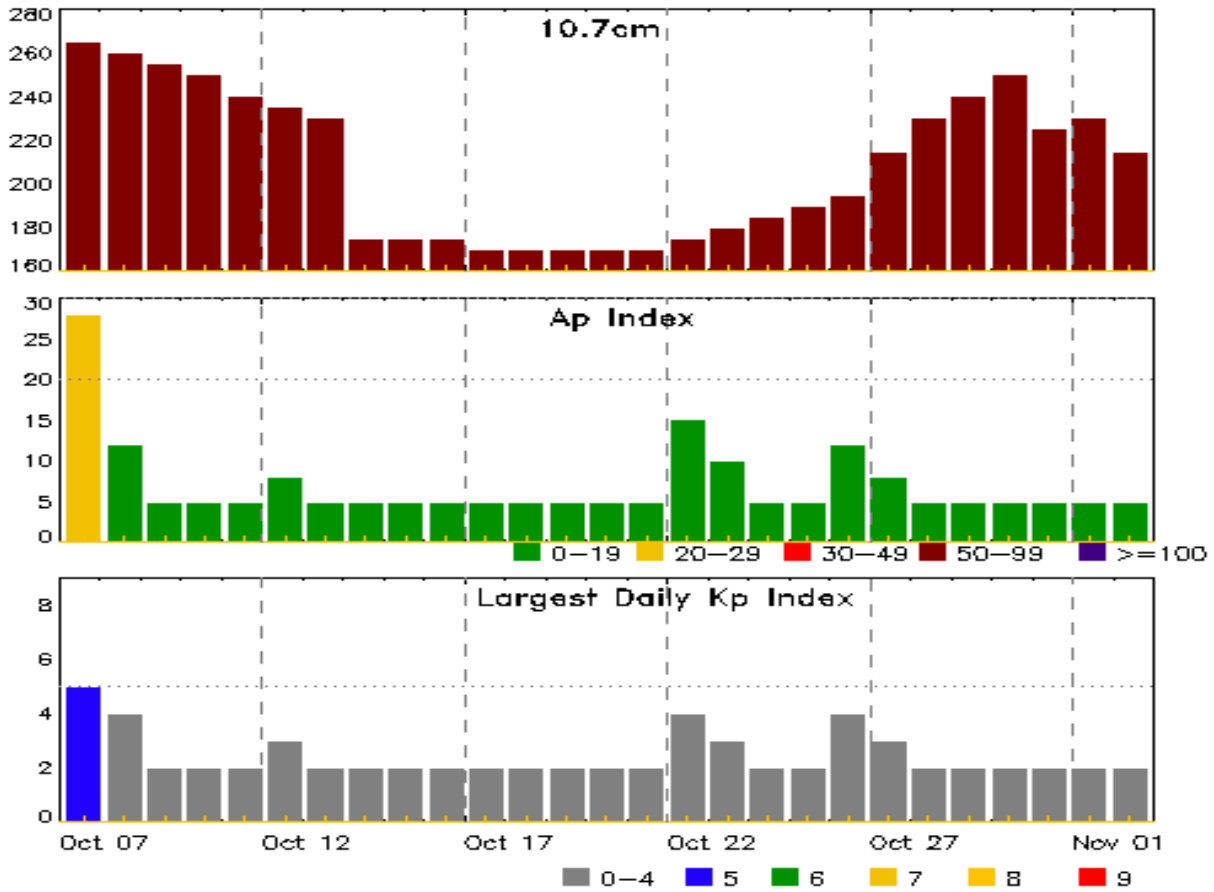


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
06 Oct 2245	ALERT: Geomagnetic K = 5	



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 Oct	265	28	5	21 Oct	170	5	2
08	260	12	4	22	175	15	4
09	255	5	2	23	180	10	3
10	250	5	2	24	185	5	2
11	240	5	2	25	190	5	2
12	235	8	3	26	195	12	4
13	230	5	2	27	215	8	3
14	175	5	2	28	230	5	2
15	175	5	2	29	240	5	2
16	175	5	2	30	250	5	2
17	170	5	2	31	225	5	2
18	170	5	2	01 Nov	230	5	2
19	170	5	2	02	215	5	2
20	170	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 #	Radio Flux 245	Radio Flux 2695	Intensity II	Intensity IV
30 Sep	2337	2359	0023	M7.6	0.130	2N	S18E30	3842			63	
01 Oct	1441	1452	1456	M1.0	0.009	1N	S12W09	3843				
01 Oct	1852	1917	1937	M1.5	0.033			3842	470			
01 Oct	2158	2220	2229	X7.1	0.520	2B	S16E17	3842	830	810	3	
02 Oct	0231	0239	0243	M1.2	0.006	SF	N12E08	3841				
02 Oct	0530	0538	0546	M3.6	0.022	SF	S15E20	3842	320		2	
02 Oct	0619	0624	0628	M1.1	0.005	SF	N11E78	3848				
02 Oct	1322	1338	1358	M3.2	0.046	1N	S19E07	3842				
02 Oct	1958	2015	2027	M1.4	0.004			3842	160			
02 Oct	2027	2051	2106	M3.3	0.059	2N	S15E03	3842				
03 Oct	0223	0234	0248	M1.1	0.005	SF	N13W08	3841				
03 Oct	0322	0341	0359	M1.5	0.028			3842	230			
03 Oct	0810	0828	0830	M1.5	0.007	SF	N12W08	3841				
03 Oct	0830	0836	0841	M1.5	0.011			3842				
03 Oct	1208	1218	1227	X9.0	0.460			3842	43000	3500	2	1
03 Oct	1718	1721	1727	M1.5	0.008	SF	S16W26	3844				
03 Oct	2009	2028	2040	M6.7	0.078	2B	S09W47	3843	1900		2	
03 Oct	2139	2141	2148	M2.3	0.010	SN	S15W26	3844				
03 Oct	2325	2328	2330	M1.1	0.003	SN	S10W00	3842	1000		2	
04 Oct	0009	0017	0025	M1.2	0.011	SF	N14W21	3841	130			
04 Oct	0436	0455	0507	M4.0	0.049	1N	S16W17	3842	150			
04 Oct	1058	1103	1116	M1.2	0.011			3836				
04 Oct	2055	2104	2113	M1.1	0.011	SF	S15W42	3844	350			
04 Oct	2204	2211	2218	M1.2	0.008	1N	N17W83	3845				
05 Oct	0007	0012	0019	M1.0	0.007	SF	S13W22	3842				
05 Oct	0818	0827	0837	M1.4	0.004			3842				
05 Oct	0837	0844	0850	M1.6	0.013			3842				
05 Oct	2033	2040	2046	M1.1	0.008			3842	570			
05 Oct	2310	2320	2328	M2.4	0.018	SF	S13W35	3842	100			
06 Oct	0009	0018	0029	M1.0	0.011			3842	100			
06 Oct	1514	1521	1525	M1.3	0.006	SN	S15W65	3844				
06 Oct	1641	1645	1651	M1.0	0.005			3842				
06 Oct	1852	1859	1904	M1.4	0.007	SF	S17W48	3842				
06 Oct	2052	2119	2147	M1.5	0.040	SF	S14W57	3839	220			



Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical	
	Begin	Max	End			Location Lat CMD	Rgn #
30 Sep	0127	0128	0129		SF	S07W08	3836
30 Sep	0134	0143	0148	C3.4	SF	S07W08	3836
30 Sep	0459	0509	0518	C3.8			
30 Sep	0810	0816	0820	C4.2	SF	S09E08	3843
30 Sep	B0844	U0844	A0847		SF	S23W11	3835
30 Sep	B0912	U0914	A0916		SF	S14E35	3842
30 Sep	1029	1036	1040	C3.0			
30 Sep	B1230	U1236	A1249		SF	S12W10	3836
30 Sep	1313	1319	1326	C3.2	SF	N12E25	3841
30 Sep	1435	1436	1438		SF	S15E23	3839
30 Sep	1514	1518	1520		SF	S14E35	3842
30 Sep	1531	1532	1535		SF	S22W37	3835
30 Sep	1556	1614	1639		SF	S17W59	3834
30 Sep	1612	1619	1624	C6.6	SF	S22W39	3835
30 Sep	1857	1915	1927	C8.4			
30 Sep	1904	1908	1917		SF	S15E34	3842
30 Sep	1936	1939	1944		SF	S10W14	3836
30 Sep	2038	2039	2043		SF	N12E21	3841
30 Sep	2056	2103	2116	C4.0			3842
30 Sep	2104	2108	2113		SF	S10E02	3843
30 Sep	2108	2108	2108		SF	S13E29	3842
30 Sep	2234	2235	2240		SF	N12E20	3841
30 Sep	2242	2244	2255		SF	N15E20	3841
30 Sep	2250	2250	2257		SF	S11E01	3843
30 Sep	2329	2330	2330		SF	S18E30	3842
30 Sep	2337	2359	0023	M7.6	2N	S18E30	3842
01 Oct	0428	0432	0436	C6.7	SF	S15E33	3842
01 Oct	0635	0640	0651		SF	S13W05	3843
01 Oct	0653	0700	0702	C3.9	SF	S13W05	3843
01 Oct	0702	0707	0710	C4.3	SF	N14E18	3841
01 Oct	0710	0718	0722	C5.2	SF	S14E14	3839
01 Oct	1217	1225	1233		SF	S09W07	3843
01 Oct	1311	1312	1320		SF	S10W52	
01 Oct	1322	1329	1333	C4.9	SF	S17E06	3844
01 Oct	1328	1329	1333		SF	S16E28	3842
01 Oct	1426	U1512	A1556		SF	S16E28	3842
01 Oct	1441	1452	1456	M1.0	1N	S12W09	3843
01 Oct	1448	1507	1547	C8.4	SF	S15E20	3842



Flare List

Date	Time			Optical			Rgn #
	Begin	Max	End	X-ray Class	Imp/Brtns	Location Lat CMD	
01 Oct	1656	1657	1702		SF	S09W09	3843
01 Oct	1746	1753	1757	C8.1	SF	S08W09	3843
01 Oct	1840	1842	1849		SF	S27W44	3835
01 Oct	1845	1907	2016		SF	S18E19	3842
01 Oct	1852	1917	1937	M1.5			3842
01 Oct	1858	1900	1907		SF	S17E09	3839
01 Oct	2015	2016	2029		SF	S18E18	3842
01 Oct	2117	2131	2158	C8.7	SF	S18E16	3842
01 Oct	2158	2220	2229	X7.1	2B	S16E17	3842
01 Oct	2211	2213	2216		SF	S16E07	3839
01 Oct	2211	2214	2218		SF	N11E84	3848
01 Oct	2220	2221	2229		SF	S21W52	3835
01 Oct	2307	2309	2312		SF	S15E06	3839
02 Oct	0231	0239	0243	M1.2	SF	N12E08	3841
02 Oct	0351	0356	0403	C6.6	SF	N12E08	3841
02 Oct	0514	0515	0518		1F	S07W09	3843
02 Oct	0530	0538	0546	M3.6	SF	S15E20	3842
02 Oct	B0548	U0604	0623		SF	S18E12	3842
02 Oct	0619	0624	0628	M1.1	SF	N11E78	3848
02 Oct	0625	0631	0643		SF	S15E14	3842
02 Oct	0626	0631	0643		SF	S15W07	3844
02 Oct	0705	0706	0709		SF	N11E79	3848
02 Oct	0913	0922	0934	C5.7	SF	S22W59	3835
02 Oct	0934	0940	0944	C4.7			3842
02 Oct	0949	0950	0956		SF	S18E11	3842
02 Oct	1006	1014	1020	C7.4	SF	S19E10	3842
02 Oct	1116	1118	1120		SF	N11E75	3848
02 Oct	1200	1208	1227		SF	S17E11	3842
02 Oct	1300	1301	1305		SF	N12E01	3841
02 Oct	1305	1311	1317	C7.4	SF	S15W11	3844
02 Oct	1322	1338	1358	M3.2	1N	S19E07	3842
02 Oct	1656	1702	1706	C7.6			3841
02 Oct	1734	1741	1746	C7.6	SF	N20W56	3845
02 Oct	1753	1758	1806		SF	N15W04	3841
02 Oct	1822	1825	1826		SF	S07W26	3843
02 Oct	1824	1830	1834	C7.1	SF	N15W04	3841
02 Oct	1829	1829	1850		SF	S13E07	3842
02 Oct	1854	1900	1904	C7.9			3841



Flare List

Date	Time			X-ray Class	Optical		
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	Rgn #
02 Oct	1857	1909	1931	C9.2	SN	N12W05	3841
02 Oct	1928	1952	2001		SF	S15W12	3844
02 Oct	1946	1948	1954		SF	N12W06	3841
02 Oct	1958	2015	2027	M1.4			3842
02 Oct	2001	2058	2148		2N	S15E03	3842
02 Oct	2019	2020	2046		SF	S15W12	3844
02 Oct	2027	2051	2106	M3.3			3842
02 Oct	2033	2034	2038		SF	N12W06	3841
02 Oct	2047	2049	2055		SF	N12W06	3841
02 Oct	2105	2108	2115		SF	S15W12	3844
02 Oct	2142	2143	2149		SF	S21W63	3835
02 Oct	2214	2218	2219		SF	N12E75	3848
02 Oct	2222	2223	2228		SF	S13E04	3842
02 Oct	2239	2242	2250		SF	N11W08	3841
03 Oct	0105	0106	0108		SF	S19E00	3842
03 Oct	0204	0206	0208		SF	S13E02	3842
03 Oct	0223	0234	0248	M1.1	SF	N13W08	3841
03 Oct	0234	0235	0256		SF	S13E02	3842
03 Oct	0322	0341	0359	M1.5			3842
03 Oct	0443	0447	0452	C9.8	SF	N13W08	3841
03 Oct	0559	0600	0603		SF	S16E04	3842
03 Oct	0559	0559	0611		SF	N13W08	3841
03 Oct	0613	U0647	A0650		SF	N13W08	3841
03 Oct	0643	0648	0652	C8.6	SF	N10E73	3848
03 Oct	0719	0719	0729		SF	S16W17	3844
03 Oct	0735	0736	0738		SF	S11E06	3842
03 Oct	B0739	U0741	A0744		SF	N13W08	3841
03 Oct	0750	0754	0758		SF	N13W12	3841
03 Oct	0800	0805	0805		SF	S16W18	3844
03 Oct	0810	0828	0830	M1.5			3841
03 Oct	B0812	U0829	A0906		SF	S10E06	3842
03 Oct	B0812	U0814	A0830		SF	S16W18	3844
03 Oct	0827	0827	0829		SF	N12W08	3841
03 Oct	0830	0836	0841	M1.5			3842
03 Oct	B0834	U0838	A0846		SF	S08W36	3843
03 Oct	B0837	U0838	A0856		SF	S16W18	3844
03 Oct	B0859	U0859	A0906		SF	S16W18	3844
03 Oct	1208	1218	1227	X9.0			3842



Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical		Rgn #
	Begin	Max	End			Location Lat CMD		
03 Oct	1718	1721	1727	M1.5	SF	S16W26		3844
03 Oct	1903	1903	1909		SF	S08W56		3836
03 Oct	1919	1922	1931		SF	S16W24		3844
03 Oct	1938	1938	1944		SF	S16W24		3844
03 Oct	2007	2009	2125		SF	S15W26		3844
03 Oct	2009	2019	2129	M6.7	2B	S09W47		3843
03 Oct	2056	2100	2104		SF	N12E58		3848
03 Oct	2139	2141	2148	M2.3	SN	S15W26		3844
03 Oct	2300	2302	2307		SF	N12E58		3848
03 Oct	2325	2328	2330	M1.1	SN	S10W00		3842
04 Oct	0005	0005	0010		SF	S16W07		3842
04 Oct	0009	0014	A0014	M1.2	SF	N14W21		3841
04 Oct	0035	0037	0038		SF	N16E56		3848
04 Oct	0320	0321	0323		SF	S14W10		3842
04 Oct	0324	0325	0326		SF	S14W10		3842
04 Oct	0330	0330	0331		SF	S14W11		3842
04 Oct	0436	0455	0507	M4.0	1N	S16W17		3842
04 Oct	0532	0538	0541		SF	N16E51		3848
04 Oct	B0713	U0721	A0802		SF	S15W32		3844
04 Oct	B0838	U0838	A0843		SF	N12E53		3848
04 Oct	1058	1103	1116	M1.2				3836
04 Oct	B1415	U1416	A1429		SF	S16W17		3842
04 Oct	1507	1509	1511		SF	S17W22		3842
04 Oct	1718	1720	1746		SF	S09W53		3843
04 Oct	1800	1810	1826	C7.5	SF	S15W18		3842
04 Oct	1851	1932	2017		1F	S14W18		3842
04 Oct	2055	2104	2113	M1.1	SF	S15W42		3844
04 Oct	2204	2211	2218	M1.2	1N	N17W83		3845
04 Oct	2230	2232	2244		SF	N13E46		3848
04 Oct	2330	2330	2336		SF	S08W54		3843
05 Oct	0007	0012	0019	M1.0	SF	S13W22		3842
05 Oct	0033	0034	0038		SF	S08W71		3836
05 Oct	0136	0144	0155	C7.0				3844
05 Oct	0218	0230	0237	C7.4				
05 Oct	0254	0259	0303	C7.4				
05 Oct	0336	0342	0347	C7.3				
05 Oct	0352	0352	0354		SF	S15W28		3842
05 Oct	0614	0616	0619		SF	S15W21		3842



Flare List

Date	Time			X-ray Class	Imp/ Brtns	Optical		Rgn #
	Begin	Max	End			Location Lat CMD		
05 Oct	0654	0658	0701		SF	S16W48		3844
05 Oct	0818	0827	0837	M1.4				3842
05 Oct	0837	0844	0850	M1.6				3842
05 Oct	B0922	U0923	0929		SF	S16W48		3844
05 Oct	B1224	U1238	A1251		SF	S16W48		3844
05 Oct	1329	1331	1342		SF	S15W30		3842
05 Oct	1347	1358	1452	C8.4	1F	S15W50		3844
05 Oct	1437	1438	1442		SF	S15W30		3842
05 Oct	1456	1505	1514	C8.6	SF	S15W52		3844
05 Oct	1550	1555	1600	C9.0				
05 Oct	1733	1740	1749	C9.8	SF	S16W32		3842
05 Oct	1749	1759	1804	C9.6				3842
05 Oct	1826	1847	1941		SF	S15W56		3844
05 Oct	2033	2040	2046	M1.1				3842
05 Oct	2155	2156	2200		SF	N17E33		3848
05 Oct	2310	2320	2328	M2.4	SF	S13W35		3842
06 Oct	0009	0018	0029	M1.0				3842
06 Oct	0527	0537	0548	C7.4	SF	S15W55		3844
06 Oct	0655	0659	0704		SF	N18E26		3848
06 Oct	0819	0826	0834	C5.4				3844
06 Oct	1514	1521	1525	M1.3	SN	S15W65		3844
06 Oct	1641	1645	1651	M1.0				3842
06 Oct	1852	1859	1904	M1.4	SF	S17W48		3842
06 Oct	2014	2021	2025	C7.1	SF	S16W71		3844
06 Oct	2052	2119	2147	M1.5	SF	S14W57		3839



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 3834																							
20 Sep	S14E65	275	110	2	Dso	2	B																
21 Sep	S14E51	277	110	2	Dso	2	B																
22 Sep	S14E37	278	110	2	Dso	2	B																
23 Sep	S16E23	279	40	3	Cao	4	B																
24 Sep	S15E14	275	40	3	Cao	5	B																
25 Sep	S15W00	275	60	5	Cso	12	B																
26 Sep	S15W14	276	50	7	Dsi	15	B																
27 Sep	S15W25	274	30	7	Cro	4	B																
28 Sep	S15W40	276	40	6	Cao	8	B						2										
29 Sep	S16W54	277	40	5	Cao	6	B																
30 Sep	S13W65	275	10	2	Bxo	3	B						1										
01 Oct	S17W77	273	10	1	Axx	1	A																
														0	0	0	3	0	0	0	0	0	

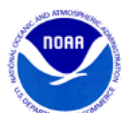
Died on Disk.

Absolute heliographic longitude: 275

Region 3835																							
22 Sep	S22E63	252	30	3	Dao	8	B		1														
23 Sep	S25E49	253	50	5	Dso	3	B																
24 Sep	S22E38	251	100	10	Dao	12	B	2				3											
25 Sep	S22E24	251	110	10	Dao	13	BG																
26 Sep	S22E10	251	100	7	Dai	20	BG																
27 Sep	S09E01	248	30	8	Dai	5	B						1										
28 Sep	S22W15	251	100	7	Dai	10	B	2				6											
29 Sep	S22W30	253	130	9	Dai	11	B																
30 Sep	S21W44	254	100	8	Dao	12	BG	1				3											
01 Oct	S23W56	252	30	9	Cro	8	B						2										
02 Oct	S22W70	253	plage					1				2											
03 Oct	S22W84	254	plage																				
														6	1	0	17	0	1	0	0	0	

Crossed West Limb.

Absolute heliographic longitude: 248



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 3836																
23 Sep	S12E72		230	80	5	Dsi	100	BG		1						
24 Sep	S10E59		230	150	8	Dac	9	BG	1				1			
25 Sep	S10E45		230	180	7	Dai	25	BG	2				2			
26 Sep	S10E31		231	200	7	Dai	30	BG	1				3			
27 Sep	S12E18		231	210	7	Dai	10	BG								
28 Sep	S10E02		234	150	6	Dai	16	BG	2				1			
29 Sep	S10W10		233	120	5	Cai	13	BG	2				4			
30 Sep	S09W22		232	80	6	Cai	9	B	1				4			
01 Oct	S12W35		231	70	5	Cai	8	B								
02 Oct	S12W48		231	30	2	Hax	3	A								
03 Oct	S11W62		232	10	3	Bxo	5	B					1			
04 Oct	S11W75		232	plage						1						
05 Oct	S11W89		233	plage									1			
									9	2	0	17	0	0	0	0

Crossed West Limb.
 Absolute heliographic longitude: 234

Region 3837																
25 Sep	S11W19		294	10	1	Axx	2	A								
26 Sep	S11W33		295	30	3	Cro	4	B								
27 Sep	S11W45		294	10	1	Hrx	1	A								
28 Sep	S11W59		295	10	1	Axx	1	A								
29 Sep	S11W73		296	10	1	Axx	1	A								
30 Sep	S11W87		297	plage												
									0	0	0	0	0	0	0	0

Crossed West Limb.
 Absolute heliographic longitude: 294



Region Summary - continued

Date	Location		Sunspot Characteristics				Flares										
	Lat CMD	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 3840																	
27 Sep	N16E16	233	10	1	Axx	1	A										
28 Sep	N15E01	235	10	1	Axx	1	A										
29 Sep	N15W13	236	10	3	Bxo	2	B										
30 Sep	N14W28	238	10	1	Axx	1	A										
01 Oct	N14W42	238	plage														
02 Oct	N14W56	239	plage														
03 Oct	N14W70	240	plage														
04 Oct	N14W84	241	plage														
								0	0	0	0	0	0	0	0	0	0

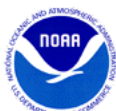
Crossed West Limb.
Absolute heliographic longitude: 235

Region 3841																	
28 Sep	N14E55	191	40	3	Cao	5	B										
29 Sep	N14E32	191	30	4	Cri	5	B										
30 Sep	N12E20	190	50	5	Cao	7	B	1				4					
01 Oct	N13E04	192	120	6	Dai	16	B	1				1					
02 Oct	N13W08	191	220	7	Dai	17	BD	5	1			10					
03 Oct	N13W22	192	200	9	Dai	25	BD	1	2			7					
04 Oct	N13W36	193	200	9	Dai	11	BG		1			1					
05 Oct	N13W50	194	50	9	Dai	10	BG										
06 Oct	N12W65	195	30	9	Dri	6	B										
								8	4	0	23	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 192

Region 3842																	
28 Sep	S14E57	177	220	9	Dai	14	BG										
29 Sep	S15E45	178	230	7	Dai	15	BGD	1	2			1	1				
30 Sep	S15E31	179	220	11	Eai	16	BGD	1	1			5		1			
01 Oct	S15E18	178	300	11	Ekc	24	BGD	3	1	1		7		1			
02 Oct	S15E06	177	380	11	Ekc	27	BGD	2	4			8	1	1			
03 Oct	S15W08	178	530	12	Ekc	35	BGD		3	1		7					
04 Oct	S15W21	178	1150	13	Ekc	28	BGD	1	1			7	2				
05 Oct	S14W35	179	1040	11	Ekc	29	BGD	2	5			7					
06 Oct	S16W50	180	460	12	Eki	23	BGD		3			1					
								10	20	2	43	4	3	0	0		

Still on Disk.
Absolute heliographic longitude: 177



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 3843																							
29 Sep	S07E15	207	60	4	Cao	8	B																
30 Sep	S08E01	209	40	5	Cai	8	B	1				3											
01 Oct	S08W11	207	110	7	Dai	12	B	2	1			5	1										
02 Oct	S09W25	208	180	7	Dai	17	BG					1	1										
03 Oct	S09W39	209	250	11	Ehi	19	BD		1			1		1									
04 Oct	S09W55	211	290	11	Eko	9	BG					2											
05 Oct	S09W68	212	130	8	Dso	7	BG																
06 Oct	S10W83	213	120	9	Dso	3	BG																
								3	2	0	12	2	1	0	0								

Still on Disk.

Absolute heliographic longitude: 209

Region 3844																							
30 Sep	S15E09	199	10	3	Bxo	3	B																
01 Oct	S15W02	198	70	6	Dso	6	B	1				1											
02 Oct	S15W16	199	160	6	Dai	11	BD	1				5											
03 Oct	S15W30	200	350	10	Dki	25	BGD		2			10											
04 Oct	S15W43	200	930	11	Ekc	19	BGD		1			2											
05 Oct	S15W57	201	840	11	Ekc	17	BG	3				5	1										
06 Oct	S16W72	202	600	13	Eki	10	BG	3	1			3											
								8	4	0	26	1	0	0	0								

Still on Disk.

Absolute heliographic longitude: 198

Region 3845																							
01 Oct	N19W46	242	30	5	Cro	5	B																
02 Oct	N19W60	243	10	7	Bxo	6	B	1				1											
03 Oct	N17W74	244	10	1	Axx	1	A																
04 Oct	N18W88	245	10	1	Axx	1	A		1				1										
								1	1	0	1	1	0	0	0								

Crossed West Limb.

Absolute heliographic longitude: 242

Region 3846																							
01 Oct	S09W57	242	10	4	Bxo	4	B																
02 Oct	S09W65	248	20	6	Cro	5	B																
03 Oct	S09W79	249	20	6	Cro	2	B																
								0	0	0	0	0	0	0	0								

Crossed West Limb.

Absolute heliographic longitude: 242



Region Summary - continued

Date	Location		Sunspot Characteristics				Flares										
	Lat CMD	Lon	Helio 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical						
								C	M	X	S	1	2	3	4		
Region 3847																	
01 Oct	S28E59	137	30	1	Hrx	1	A										
02 Oct	S28E45	138	20	1	Hrx	1	A										
03 Oct	S28E31	139	20	1	Hrx	1	A										
04 Oct	S27E19	138	10	1	Axx	1	A										
05 Oct	S27E05	139	10	1	Axx	1	A										
06 Oct	S27W10	140	plage														
								0	0	0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 139

Region 3848																	
02 Oct	N14E70	113	280	6	Dhc	5	BD		1			4					
03 Oct	N13E56	114	330	7	Dkc	15	BG	1				3					
04 Oct	N13E42	115	700	6	Dkc	12	BGD					4					
05 Oct	N13E28	116	980	7	Dkc	14	BD					1					
06 Oct	N13E14	116	900	6	Dki	16	BD					1					
								1	1	0	14	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 116

Region 3849																	
04 Oct	S06E64	93	190	8	Dao	8	B										
05 Oct	S06E51	93	320	8	Dac	14	BG										
06 Oct	S06E37	93	350	9	Dki	22	BG										
								0	0	0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 93

Region 3850																	
06 Oct	S03E33	97	160	5	Dai	6	BG										
								0	0	0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 97



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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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