Space Weather Highlights
29 September - 05 October 2025

SWPC PRF 2614
06 October 2025

Solar activity reached moderate levels on 29 Sep-03 Oct, with a total of twelve M-class flares (R1-Minor) observed. Region 4232 (N04, L=53, class/area=Dhi/310 on 03 Oct) produced five M-flares throughout the week, including the largest of the period; an M3.6 at 29/0145 UTC. On 03 Oct, two slow-moving Earth-directed CMEs were observed. The first CME was associated with an M1.5/2n flare at 03/0523 UTC from Region 4236 (N10, L=62, class/area=Ekc/320 on 04 Oct), and the second CME was associated with a filament eruption from near the ESE limb at 03/1830 UTC. Both CMEs are expected to arrive after midday on 07 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 29-30 Sep, and high levels on 01-05 Oct.

Geomagnetic field activity reached G1 (Minor) storm levels on 29 Sep due to negative polarity CH HSS influences. A combination of CH HSS influences and likely transient activity led to periods of G3 (Strong) storming on 30 Sep and 02 Oct, and periods of G2 (Moderate) storming on 01 Oct. Positive polarity CH HSS influences prevailed over 03-05 Oct, with geomagnetic field activity reaching G1 (Minor) storm periods on 03 Oct, active conditions on 04 Oct, and quiet to unsettled levels on 05 Oct.

Space Weather Outlook
06 October - 01 November 2025

Solar activity is expected to be low with a varying chance for M-class flare (R1-R2/Minor-Moderate) activity throughout the period.

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 06-08 Oct, 13-16 Oct, 21-24 Oct, 28-31 Oct, and 01 Nov. Normal to moderate levels are expected to prevail throughout the remainder of the period.

Geomagnetic field activity is likely to reach active levels on 06 Oct in response to continued positive polarity CH HSS influences. Periods of G1 (Minor) storm levels are likely on 07-08 Oct due to waning positive polarity CH HSS influences and the anticipated arrival of two slow-moving CMEs that left the Sun on 03 Oct. Negative polarity CH HSS influences are likely to result in periods of G1 storming on 11 Oct, and active conditions on 12 Oct. Additional negative polarity CH HSS influences are likely to produce active conditions on 19 Oct, and G1 storming on 20 Oct. Periods of active conditions are likely over 25-26 Oct due to negative polarity CH HSS influences. Positive polarity CH HSS influences are anticipated over 28-31 Oct, with active conditions likely on 28 Oct, G1-G2 (Minor-Moderate) storm periods likely on

29 Oct, and G1 storming likely on 30 Oct. Periods of active conditions are likely on 31 Oct as positive polarity CH HSS influences wane. Quiet and quiet to unsettled levels are likely to prevail throughout the remainder of the 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 September	186	170	780	C1.7	16	4	0	14	2	0	0	0
30 September	187	171	1090	C1.7	6	3	0	12	1	0	0	0
01 October	184	161	1150	C1.7	4	2	0	9	2	0	0	0
02 October	167	161	1155	C1.4	9	1	0	13	1	0	0	0
03 October	170	150	1020	C1.7	5	2	0	4	0	1	0	0
04 October	158	137	970	C1.4	11	0	0	1	0	0	0	0
05 October	148	127	640	C1.4	1	0	0	0	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
29 September	6.0e+05	1.5e+04	1.1e+07
30 September	5.0e+05	1.5e+04	1.4e+07
01 October	2.9e+06	1.7e+04	7.3e+07
02 October	3.3e+06	1.7e+04	1.2e+08
03 October	3.3e+06	2.1e+04	2.8e+08
04 October	1.8e+06	2.2e+04	5.1e+08
05 October	2.0e+06	2.5e+04	9.2e+08

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
29 September	13	2-2-3-3-4-3-3-1	51	2-2-4-6-5-7-6-3	27	3-3-4-5-4-5-5-3
30 September	43	5-6-5-5-5-4-3-4	70	4-6-6-5-7-6-6-4	75	5-7-6-5-6-6-5-6
01 October	25	4-4-3-3-5-4-4-3	60	4-4-7-6-6-5-5-4	50	5-5-5-4-6-5-6-4
02 October	30	4-5-4-4-5-2-4-4	65	4-6-7-7-5-4-4-4	45	5-7-5-5-4-2-5-4
03 October	20	4-4-4-4-3-3-3-2	45	5-5-6-5-5-4-5-3	30	4-5-5-4-3-3-4-3
04 October	16	3-3-4-3-4-3-2-2	61	4-4-6-7-7-5-3-2	20	4-4-4-4-4-4-3-2
05 October	6	2-2-2-2-2-2-1-1	14	3-3-4-4-3-2-0-1	12	3-3-3-2-2-1-1-1

Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
29 Sep 0213	SUMMARY: 10cm Radio Burst	29/0143 - 0149
29 Sep 0642	WARNING: Geomagnetic K = 4	29/0645 - 1800
29 Sep 0902	ALERT: Geomagnetic K = 4	
29 Sep 1159	WARNING: Geomagnetic K = 5	29/1158 - 1800
29 Sep 1200	ALERT: Geomagnetic K = 5	
29 Sep 1720	EXTENDED WARNING: Geomagnetic K = 4	29/0645 - 30/0000
29 Sep 1720	ALERT: Geomagnetic K = 5	
29 Sep 1721	EXTENDED WARNING: Geomagnetic K = 5	29/1158 - 30/0000
29 Sep 2034	ALERT: Geomagnetic K = 5	
29 Sep 2325	EXTENDED WARNING: Geomagnetic K = 4	29/0645 - 30/0900
30 Sep 0115	EXTENDED WARNING: Geomagnetic K = 4	29/0645 - 30/1500
30 Sep 0115	WARNING: Geomagnetic K = 5	30/0114 - 0900
30 Sep 0247	ALERT: Geomagnetic K = 5	
30 Sep 0252	WARNING: Geomagnetic K = 6	30/0252 - 0900
30 Sep 0341	ALERT: Geomagnetic K = 5	
30 Sep 0411	ALERT: Geomagnetic K = 6	
30 Sep 0457	EXTENDED WARNING: Geomagnetic K = 5	30/0114 - 1500
30 Sep 0457	EXTENDED WARNING: Geomagnetic K = 4	29/0645 - 30/2359
30 Sep 0457	EXTENDED WARNING: Geomagnetic K = 6	30/0252 - 1200
30 Sep 0457	WARNING: Geomagnetic K>= 7	30/0456 - 1200
30 Sep 0531	ALERT: Geomagnetic K = 7	
30 Sep 0631	ALERT: Geomagnetic K = 5	
30 Sep 0649	ALERT: Geomagnetic K = 6	
30 Sep 1140	ALERT: Geomagnetic K = 5	
30 Sep 1142	EXTENDED WARNING: Geomagnetic K = 5	30/0114 - 2100
30 Sep 1307	ALERT: Geomagnetic K = 5	
30 Sep 1310	EXTENDED WARNING: Geomagnetic K = 6	30/0252 - 2100
30 Sep 1418	ALERT: Geomagnetic K = 6	
30 Sep 1651	ALERT: Geomagnetic K = 5	

Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
30 Sep 1759	ALERT: Geomagnetic K = 6	
30 Sep 1800	EXTENDED WARNING: Geomagnetic K = 5	30/0114 - 01/0300
30 Sep 1801	EXTENDED WARNING: Geomagnetic K = 4	29/0645 - 01/1200
30 Sep 1853	EXTENDED WARNING: Geomagnetic K = 6	30/0252 - 01/0300
30 Sep 1853	ALERT: Geomagnetic K = 5	
30 Sep 2024	ALERT: Geomagnetic K = 6	
30 Sep 2053	EXTENDED WARNING: Geomagnetic K = 4	29/0645 - 01/1500
30 Sep 2054	EXTENDED WARNING: Geomagnetic K = 5	30/0114 - 01/1200
30 Sep 2055	EXTENDED WARNING: Geomagnetic K = 6	30/0252 - 01/0900
30 Sep 2144	ALERT: Geomagnetic K = 5	
30 Sep 2216	ALERT: Geomagnetic K = 6	
30 Sep 2238	WATCH: Geomagnetic Storm Category G2 predicted	
01 Oct 0102	ALERT: Geomagnetic K = 5	
01 Oct 0346	ALERT: Geomagnetic K = 5	
01 Oct 0847	ALERT: Geomagnetic K = 5	
01 Oct 1153	EXTENDED WARNING: Geomagnetic K = 4	29/0645 - 01/2359
01 Oct 1154	EXTENDED WARNING: Geomagnetic K = 5	30/0114 - 01/1500
01 Oct 1215	SUMMARY: 10cm Radio Burst	01/1132 - 1132
01 Oct 1255	ALERT: Geomagnetic K = 5	
01 Oct 1256	EXTENDED WARNING: Geomagnetic K = 5	30/0114 - 01/2100
01 Oct 1311	EXTENDED WARNING: Geomagnetic K = 6	30/0252 - 01/1800
01 Oct 1333	ALERT: Electron 2MeV Integral Flux >= 1000pfu	01/1325
01 Oct 1354	ALERT: Geomagnetic K = 6	
01 Oct 1715	ALERT: Geomagnetic K = 5	
01 Oct 1953	ALERT: Geomagnetic K = 5	
01 Oct 1954	EXTENDED WARNING: Geomagnetic K = 4	29/0645 - 03/0000
01 Oct 1955	EXTENDED WARNING: Geomagnetic K = 5	30/0114 - 02/1800
01 Oct 2035	EXTENDED WARNING: Geomagnetic K = 6	30/0252 - 02/1200
01 Oct 2036	ALERT: Geomagnetic K = 6	

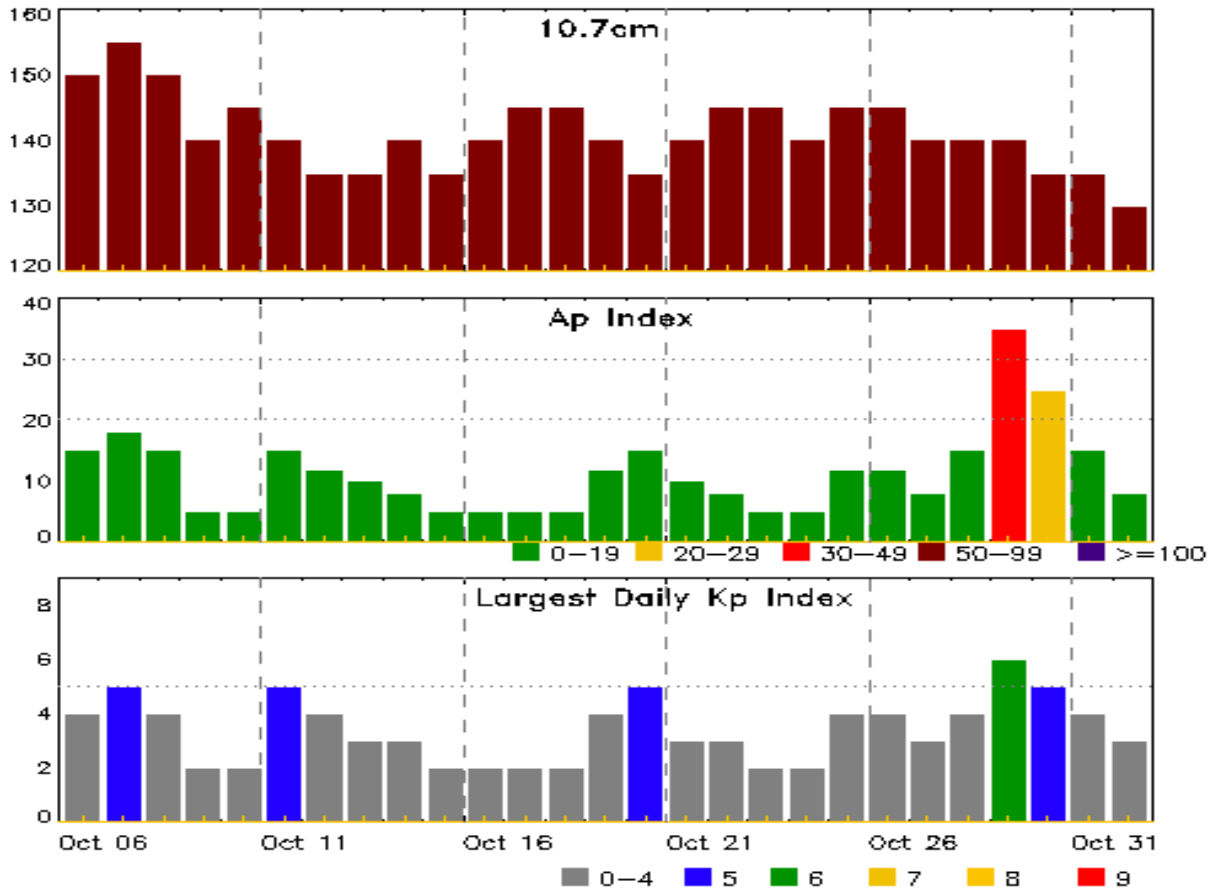
Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
01 Oct 2329	WATCH: Geomagnetic Storm Category G2 predicted	
02 Oct 0139	ALERT: Geomagnetic K = 5	
02 Oct 0249	ALERT: Type II Radio Emission	02/0209
02 Oct 0335	ALERT: Geomagnetic K = 5	
02 Oct 0403	ALERT: Geomagnetic K = 6	
02 Oct 0418	WARNING: Geomagnetic K>= 7	02/0418 - 1200
02 Oct 0459	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	01/1325
02 Oct 0602	ALERT: Geomagnetic K = 7	
02 Oct 0909	ALERT: Geomagnetic K = 5	
02 Oct 1037	EXTENDED WARNING: Geomagnetic K = 6	30/0252 - 02/1500
02 Oct 1045	ALERT: Geomagnetic K = 5	
02 Oct 1140	WATCH: Geomagnetic Storm Category G2 predicted	
02 Oct 1916	EXTENDED WARNING: Geomagnetic K = 5	30/0114 - 03/0000
02 Oct 1930	ALERT: Geomagnetic K = 5	
02 Oct 1953	EXTENDED WARNING: Geomagnetic K = 4	29/0645 - 04/0000
02 Oct 2307	EXTENDED WARNING: Geomagnetic K = 5	30/0114 - 03/0900
03 Oct 0417	ALERT: Geomagnetic K = 5	
03 Oct 0500	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	01/1325
03 Oct 0716	EXTENDED WARNING: Geomagnetic K = 5	30/0114 - 03/1500
03 Oct 0843	ALERT: Geomagnetic K = 5	
03 Oct 1214	ALERT: Type II Radio Emission	03/1101
03 Oct 1215	ALERT: Type IV Radio Emission	03/1112
03 Oct 1443	EXTENDED WARNING: Geomagnetic K = 4	29/0645 - 04/1200
03 Oct 1443	EXTENDED WARNING: Geomagnetic K = 5	30/0114 - 03/2359
03 Oct 1507	ALERT: Type II Radio Emission	03/1451
04 Oct 0519	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	01/1325
04 Oct 1114	EXTENDED WARNING: Geomagnetic K = 4	29/0645 - 05/1200

Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
04 Oct 1716	ALERT: Type II Radio Emission	04/1643
04 Oct 2000	WATCH: Geomagnetic Storm Category G1 predicted	
05 Oct 0226	WATCH: Geomagnetic Storm Category G1 predicted	
05 Oct 0459	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	01/1325

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
06 Oct	150	15	4	20 Oct	135	15	5
07	155	18	5	21	140	10	3
08	150	15	4	22	145	8	3
09	140	5	2	23	145	5	2
10	145	5	2	24	140	5	2
11	140	15	5	25	145	12	4
12	135	12	4	26	145	12	4
13	135	10	3	27	140	8	3
14	140	8	3	28	140	15	4
15	135	5	2	29	140	35	6
16	140	5	2	30	135	25	5
17	145	5	2	31	135	15	4
18	145	5	2	01 Nov	130	8	3
19	140	12	4				

Energetic Events

	Time			X-ray		Optical Information			Peak Radio Flux		Sweep Freq Intensity	
Date	Begin	Max	Half Max	Class	Integ Flux	Imp/ Brtns	Location Lat CMD	Rgn #	245	2695	II	IV
29 Sep	0137	0145	0147	M3.6	0.008			4232	2500		260	
29 Sep	1106	1115	1118	M1.0	0.004	2N	N09E37	4236	8300			
29 Sep	1123	1139	1152	M1.1	0.016	SF	N02E40	4232				
29 Sep	1156	1159	1202	M1.0	0.004	SF	N16E45	4233				
30 Sep	0051	0056	0058	M1.2	0.003			4232	1700		120	
30 Sep	0929	0940	0945	M2.7	0.012	1N	S17W61	4226				
30 Sep	1202	1227	1248	M1.8	0.033	SF	S15W36	4238				
01 Oct	0215	0226	0237	M1.2	0.013	1N	N06E20	4232				
01 Oct	1636	1650	1700	M1.2	0.011	1N	N08E12	4232	100			
02 Oct	0200	0209	0211	M1.2	0.004	SF	S09W85	4226	730			3
03 Oct	0500	0523	0542	M1.5	0.026	2N	N13W13	4236	320			
03 Oct	1419	1436	1515	M1.2	0.030			4238				2

Flare List

	Time			Optical			
Date	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
29 Sep	0137	0145	0147	M3.6			4232
29 Sep	0314	0321	0324	C2.9			4236
29 Sep	0349	0358	0411	C4.4			4227
29 Sep	0411	0414	0417	C6.5			4232
29 Sep	0712	0722	0733	C3.9			4233
29 Sep	0754	0802	0809	C3.6			4236
29 Sep	0909	0915	0923	C3.0			
29 Sep	1017	1018	1020		SF	S01E43	4232
29 Sep	1031	1032	1036		SF	N09E35	4236
29 Sep	1045	1045	1051		SF	N10E36	4236
29 Sep	1106	1108	1109	M1.0	2N	N09E37	4236
29 Sep	1123	1139	1152	M1.1	SF	N02E40	4232
29 Sep	1156	1159	1202	M1.0	SF	N16E45	4233
29 Sep	1214	1218	1222	C8.3	1N	S12W17	4230
29 Sep	1346	1348	1352		SF	N10E35	4236
29 Sep	1417	1425	1431	C4.3	SF	N10E35	4236
29 Sep	1422	1424	1502		1N	N01E39	4232
29 Sep	1436	1500	1526	C3.4	SF	N10E35	4236
29 Sep	1540	1540	1545		SF	S10W19	4230

Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
29 Sep	1550	1555	1601	C2.5			4227
29 Sep	1630	1638	1643	C3.3			4236
29 Sep	1655	1704	1712	C3.0			4236
29 Sep	1657	1724	1731		SF	N11E31	4236
29 Sep	1712	1717	1720	C3.0			4233
29 Sep	1802	1804	1810		SF	N05E36	4232
29 Sep	1825	1826	1910		SF	N11E31	4236
29 Sep	B1941	1942	1944		SF	S12W27	4239
29 Sep	2006	2011	2016	C3.9			4236
29 Sep	2027	2032	2037	C3.5			4232
29 Sep	2244	2250	2253	C3.8	SF	N06E34	4232
30 Sep	0019	0023	0034	C3.0			4230
30 Sep	0051	0056	0058	M1.2			4232
30 Sep	0200	0214	0227	C5.8			
30 Sep	0429	0437	0443	C3.8			4236
30 Sep	0443	0446	0448	C3.6			4236
30 Sep	0535	0536	0539		SF	N04E28	4232
30 Sep	0634	0635	0637		SF	S09W54	4226
30 Sep	B0712	U0718	0718		SF	N10E24	4236
30 Sep	0915	0921	0924	C2.8	SF	N10E23	4236
30 Sep	0929	0940	0945	M2.7	1N	S17W61	4226
30 Sep	B0940	U0940	A0947		SF	N10E23	4236
30 Sep	1044	1045	1047		SF	S16W53	4227
30 Sep	B1054	U1059	1104		SF	N09E22	4236
30 Sep	1140	1141	1143		SF	N09E22	4236
30 Sep	1202	1227	1248	M1.8	SF	S15W36	4238
30 Sep	1902	1902	1904		SF	S10W38	4239
30 Sep	2129	2142	2151	C4.0	SF	S14W59	4226
30 Sep	2259	2300	2304		SF	N11E15	4236
01 Oct	0044	0058	0113	C3.4			
01 Oct	0115	0130	0154	C7.8	SF	S10W37	4230
01 Oct	0215	0226	0237	M1.2	1N	N06E20	4232
01 Oct	0249	0251	0250		SF	N06E18	4232
01 Oct	0411	0411	0413		SF	N06E18	4232
01 Oct	0457	0457	0502		SF	N06E18	4232
01 Oct	0506	0506	0508		SF	N06E16	4232
01 Oct	0526	0526	0528		SF	N06E16	4232
01 Oct	0705	0721	0729	C4.1			4240

Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
01 Oct	1128	1135	1141	C8.6			4236
01 Oct	1636	1650	1700	M1.2	1N	N08E12	4232
01 Oct	1752	1753	1756		SF	N08E12	4232
01 Oct	2150	2150	2159		SF	N09W00	4236
01 Oct	2339	2341	2341		SF	N06E10	4232
02 Oct	0001	0002	0003		SF	N06E10	4232
02 Oct	0200	0209	0211	M1.2	SF	S09W85	4226
02 Oct	0217	0222	0225	C5.2	SF	N29E14	4235
02 Oct	0229	0232	0239		SF	N29E14	4235
02 Oct	0433	0434	0437		SF	S10W54	4230
02 Oct	0442	0447	0451	C4.1	1N	N18E06	4233
02 Oct	0706	0721	0757	C2.8	SF	N18E06	4233
02 Oct	0834	0838	0840	C3.1			4230
02 Oct	1330	1330	1332		SF	N11W10	4236
02 Oct	1403	1403	1406		SF	S16W63	4238
02 Oct	1410	1417	1421	C3.0			
02 Oct	1629	1638	1644	C2.4			
02 Oct	1655	1701	1728	C3.0	SF	N09W10	4236
02 Oct	1919	1927	1939	C1.8	SF	N09W13	4236
02 Oct	2026	2033	2040	C2.2	SF	N05W05	4232
02 Oct	2223	2224	2227		SF	N08W14	4236
02 Oct	2257	2258	2259		SF	N08W08	4232
03 Oct	0500	0523	0542	M1.5	2N	N13W13	4236
03 Oct	0602	0611	0626	C9.7	SF	N07W14	4232
03 Oct	1220	1237	1250	C6.1			4226
03 Oct	1419	1436	1515	M1.2			4238
03 Oct	1515	1535	1549	C7.9			4238
03 Oct	1702	1716	1733	C7.3			4226
03 Oct	2105	2114	2120	C3.0	SF	S10E30	4242
03 Oct	2237	2238	2240		SF	N04W14	4232
03 Oct	2255	2256	2306		SF	S11E28	4242
04 Oct	0025	0035	0041	C3.4			4242
04 Oct	0049	0054	0058	C2.7			4242
04 Oct	0136	0142	0147	C5.5			4242
04 Oct	0310	0322	0331	C4.7			4236
04 Oct	0407	0414	0416	C3.2			4242
04 Oct	0455	0502	0509	C3.5			4232
04 Oct	1745	1752	1756	C3.5	SF	N16E12	4241

Flare List

	Time			Optical			
Date	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
04 Oct	1837	1845	1850	C2.7			4230
04 Oct	1850	1905	1911	C3.0			4230
04 Oct	2202	2205	2211	C2.0			
04 Oct	2317	2323	2326	C2.1			4241
05 Oct	2337	2342	2345	C3.4			

Region Summary

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Region 4225													
16 Sep	N10E81	176	50	2	Hsx	1	A								
17 Sep	N10E68	176	120	3	Hsx	1	A								
18 Sep	N10E53	177	140	3	Hsx	1	A				1				
19 Sep	N09E41	176	180	4	Cso	3	B								
20 Sep	N10E27	176	210	4	Cao	4	B								
21 Sep	N09E14	177	220	5	Dao	4	B								
22 Sep	N10E01	177	200	3	Cao	4	B								
23 Sep	N10W14	178	90	4	Hsx	2	A								
24 Sep	N10W28	179	150	3	Hsx	2	A								
25 Sep	N10W40	178	150	3	Hsx	3	A								
26 Sep	N09W53	178	120	3	Hsx	2	A								
27 Sep	N10W66	178	110	2	Hax	1	A								
28 Sep	N09W78	176	90	2	Hsx	1	A								
29 Sep	N08W91	175	120	3	Hsx	1	A								
								0	0	0	1	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 177

		Region 4226													
20 Sep	S11E67	137	30	1	Cso	2	B								
21 Sep	S09E56	135	60	3	Dso	1	B								
22 Sep	S11E47	131	180	8	Dsi	6	B								
23 Sep	S11E32	132	170	8	Dsi	12	B								
24 Sep	S11E18	133	220	8	Dai	15	BG	4			3				
25 Sep	S11E06	132	220	7	Dao	13	B	1			1				
26 Sep	S10W07	132	130	7	Cao	9	B								
27 Sep	S10W21	133	90	5	Cao	8	B	3	2		5				
28 Sep	S11W35	133	130	4	Cao	5	B								
29 Sep	S11W48	133	70	3	Hsx	3	A								
30 Sep	S09W62	134	90	3	Hsx	2	A	1	1		2	1			
01 Oct	S09W76	135	90	3	Hsx	2	A								
02 Oct	S09W90	136	90	3	Hsx	2	A		1		1				
								9	4	0	12	1	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 132

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Region 4227													
20 Sep	S17E67	137	30	1	Cao	3	B								
21 Sep	S19E53	138	80	4	Cao	2	B								
22 Sep	S19E40	138	70	3	Hax	3	A								
23 Sep	S19E27	137	80	3	Hax	4	A								
24 Sep	S19E14	137	80	5	Hax	5	A								
25 Sep	S19E01	137	80	5	Hax	5	A								
26 Sep	S18W11	136	30	2	Hax	4	A	1							
27 Sep	S17W27	138	30	7	Dso	8	B								
28 Sep	S17W41	139	30	10	Cao	5	B								
29 Sep	S17W56	140	10	5	Bxo	3	B	2							
30 Sep	S15W69	141	plage								1				
01 Oct	S15W83	142	plage												
								3	0	0	1	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 137

		Region 4228													
21 Sep	N04E66	125	10	1	Hsx	1	A	1							
22 Sep	N04E54	124	30	1	Hsx	1	A								
23 Sep	N04E41	123	40	1	Hsx	1	A	1							
24 Sep	N04E27	124	30	2	Hsx	1	A								
25 Sep	N04E13	125	40	2	Hsx	1	A								
26 Sep	N05E01	124	20	2	Hsx	2	A								
27 Sep	N04W12	124	10	2	Axx	2	A								
28 Sep	N05W26	124	10	3	Axx	2	A								
29 Sep	N05W41	126	plage												
30 Sep	N05W55	127	plage												
01 Oct	N05W69	128	plage												
02 Oct	N05W83	129	plage												
								2	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 124

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
			Region 4230												
23 Sep	S11E58	106	60	9	Dao	8	B	1							
24 Sep	S11E44	107	70	10	Dso	5	B								
25 Sep	S11E30	108	100	11	Eso	4	B								
26 Sep	S10E16	109	80	11	Eso	9	B								
27 Sep	S11E02	110	90	12	Eao	12	B								
28 Sep	S11W10	108	70	12	Eao	7	BG								
29 Sep	S11W23	108	100	8	Dao	16	BG	1			1	1			
30 Sep	S11W37	109	190	9	Dai	16	BGD	1							
01 Oct	S10W51	110	300	11	Eki	14	BGD	1			1				
02 Oct	S10W65	111	300	11	Eki	14	BGD	1			1				
03 Oct	S10W80	112	200	11	Eai	4	BG								
04 Oct	S10W93	112	200	11	Eai	4	BG	2							
								7	0	0	3	1	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 110

			Region 4231												
25 Sep	S07W50	188	10	3	Cso	2	B								
26 Sep	S08W66	191	20	3	Cso	2	B								
27 Sep	S07W81	192	30	1	Hsx	1	A								
28 Sep	S07W96	194	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 188

			Region 4232												
26 Sep	N02E78	47	10	5	Hax	2	A	2							
27 Sep	N03E64	48	90	3	Cao	1	B	4	1		2		1		
28 Sep	N04E48	50	180	5	Dso	5	BG	3	1		3	2			
29 Sep	N05E35	49	250	5	Dho	3	BG	3	2		4	1			
30 Sep	N04E22	50	250	8	Dhi	9	BG		1		1				
01 Oct	N04E08	51	260	8	Dhi	12	BG		2		7	2			
02 Oct	N04W06	52	300	8	Dhi	18	BGD	1			3				
03 Oct	N04W21	53	310	9	Dhi	18	BG	1			2				
04 Oct	N04W34	53	310	9	Dhi	18	B	1							
05 Oct	N04W49	55	260	6	Dki	15	B								
								15	7	0	22	5	1	0	0

Still on Disk.
Absolute heliographic longitude: 52

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
			Region 4233												
27 Sep	N17E62	50	10	5	Cao	7	B	9			1				
28 Sep	N18E50	48	60	6	Dao	6	B	10			5				
29 Sep	N17E34	50	60	8	Dao	8	B	2	1		1				
30 Sep	N17E21	51	120	8	Dao	11	B								
01 Oct	N17E07	52	10	9	Bxo	8	B								
02 Oct	N17W03	49	5	5	Bxo	3	B	2			1	1			
03 Oct	N19W17	49	10	4	Hrx	5	A								
04 Oct	N19W31	50	10	4	Hrx	2	A								
05 Oct	N19W45	51	plage												
								26	2	0	8	1	0	0	0

Still on Disk.
Absolute heliographic longitude: 49

			Region 4234												
27 Sep	S23E19	93	10	3	Bxo	5	B								
28 Sep	S23E05	93	plage												
29 Sep	S23W09	94	plage												
30 Sep	S23W23	95	plage												
01 Oct	S23W37	96	plage												
02 Oct	S23W51	97	plage												
03 Oct	S23W66	98	plage												
04 Oct	S23W80	99	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 93

			Region 4235												
27 Sep	N30E65	47	10	1	Bxo	3	B								
28 Sep	N30E51	47	20	2	Cso	3	B	1							
29 Sep	N28E38	47	25	3	Cao	3	B								
30 Sep	N27E24	48	30	2	Hsx	1	A								
01 Oct	N27E10	49	30	1	Hsx	1	A								
02 Oct	N27W04	50	20	1	Hrx	1	A	1			2				
03 Oct	N27W19	51	20	1	Hrx	1	A								
04 Oct	N27W33	52	10	1	Axx	1	A								
05 Oct	N27W47	53	10	1	Axx	1	A								
								2	0	0	2	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 50

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
			Region 4236												
28 Sep	N11E42	56	30	4	Dai	7	B	1							
29 Sep	N11E27	57	80	7	Dai	12	BG	7	1		7				
30 Sep	N10E14	58	250	9	Dkc	21	BGD	3			6				
01 Oct	N10W00	59	300	9	Dki	23	BGD	1			1				
02 Oct	N10W14	60	300	9	Dki	20	BG	2			4				
03 Oct	N10W29	61	320	9	Dhc	13	BG		1				1		
04 Oct	N10W43	62	320	11	Ekc	17	BG	1							
05 Oct	N10W57	63	190	11	Eac	14	B								
								15	2	0	18	0	1	0	0

Still on Disk.
Absolute heliographic longitude: 59

			Region 4237												
29 Sep	N16W05	89	10	4	Bxo	3	B								
30 Sep	N16W19	91	10	4	Bxo	2	B								
01 Oct	N16W33	92	plage												
02 Oct	N16W47	93	plage												
03 Oct	N16W62	94	plage												
04 Oct	N16W76	95	plage												
05 Oct	N16W90	96	plage												
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 89

			Region 4238												
29 Sep	S13W26	111	10	5	Bxo	6	B								
30 Sep	S14W41	113	60	7	Dao	7	B		1		1				
01 Oct	S14W55	114	120	7	Dso	6	B								
02 Oct	S14W69	115	100	7	Dso	5	BG				1				
03 Oct	S14W84	116	100	4	Cso	2	B	1	1						
								1	2	0	2	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 111

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
			Region 4239												
29 Sep	S09W27	112	45	3	Hax	2	A				1				
30 Sep	S10W41	113	80	2	Hsx	1	A				1				
01 Oct	S10W55	114	plage												
02 Oct	S10W69	115	plage												
03 Oct	S10W84	116	plage												
								0	0	0	2	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 112

			Region 4240												
30 Sep	N16E67	5	10	1	Axx	1	A								
01 Oct	N16E53	6	10	1	Axx	1	A	1							
02 Oct	N16E39	7	10	1	Axx	1	A								
03 Oct	N17E25	6	plage												
04 Oct	N17E11	8	plage												
05 Oct	N17W03	9	plage												
								1	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 9

			Region 4241												
01 Oct	N14E48	11	30	5	Cro	4	B								
02 Oct	N14E34	12	30	7	Dro	7	B								
03 Oct	N14E19	13	30	7	Dro	10	B								
04 Oct	N14E05	14	30	7	Dai	8	B	2			1				
05 Oct	N14W09	15	60	11	Eao	8	B								
								2	0	0	1	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 14

			Region 4242												
03 Oct	S11E27	5	20	2	Dro	3	B	1			2				
04 Oct	S11E13	6	80	2	Dai	3	B	4							
05 Oct	S11W01	7	90	8	Dai	13	B								
								5	0	0	2	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 7

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Region 4243													
03 Oct	N18E55	337	10	2	Bxo	4	B								
04 Oct	N18E41	338	10	2	Bxo	4	B								
05 Oct	N18E27	339	20	3	Cro	3	B								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 339

		Region 4244													
05 Oct	S21E64	302	10	1	Axx	3	A								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 302

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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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