Space Weather Highlights
26 August - 01 September 2024

SWPC PRF 2557
02 September 2024

Solar activity ranged from low to high levels. Low levels were observed on 28-29 Aug; moderate levels were observed on 26-27 Aug and 30-31 Aug; high levels were observed on 01 Sep. The strongest event of the reporting period was a long-duration M5.5 (R2-Moderate) flare at 01/1322 UTC from a yet to be numbered region rotating around the SE limb. A large CME was associated with the flare but given its proximity to the limb, the primary body of the ejecta is not expected to be Earth-directed. Two other regions produced R1 (Minor) events, Region 3796 (S03, L=353, class/area=Dki/380 on 23 Aug and Region 3806 (S11, L=212, class/area=Ekc/480 on 31 Aug).

The greater than 10 MeV proton flux at geosynchronous orbit rose above background levels, but still well below event threshold, following the M5.5 flare from the SE limb on 01 Sep.

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

Geomagnetic field activity ranged from quiet to G2 (Moderate) geomagnetic storm levels. Quiet conditions were observed on 26 Aug. Unsettled to active levels on 27 Aug marked the arrival of a CME that left the Sun on 23 Aug. Total magnetic field strength initially increased to the lower teens. G2 conditions on 28 Aug were observed following a further increase in total field to 18 nT, with the Bz component reaching as far south as -15 nT. Total field maintained in the upper teens over Aug 29, however, slow solar wind speeds and a predominantly northward Bz resulted in quiet geomagnetic conditions. Further transient activity was observed over 30 Aug - 01 Sep, with modest wind speeds mostly between ~350-440 km/s. However, the Bz component of the magnetic field was sustained southward from 30 Aug - 01 Sep, which resulted in G1 (Minor) activity on 30-31 Aug and active conditions 01 Sep.

Space Weather Outlook
02 September - 28 September 2024

Solar activity is likely to be at moderate levels (R1-R2/Minor-Moderate), with a slight chance for X-class events (R3-Strong), throughout the outlook period due to complex regions on the visible disk as well as the anticipated return of complex regions from the Sun's farside.

There is a chance for proton events at geosynchronous orbit on 02-03 Sep due to an M5.5 flare from the SE limb on 01 Sep. An increase in proton flux was observed following the event and there is potential for a gradual climb to the S1 (minor) threshold over the next couple of days.

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

Geomagnetic field activity is expected to range from quiet to G1 (Minor) geomagnetic storm levels. G1 conditions are forecast on 27-28 Sep; active conditions are likely on 28 Sep, and

unsettled levels are likely on 02 Sep, 08 Sep, and 17-18 Sep. All increases in geomagnetic activity are from anticipated recurrent features in the solar wind. The remainder of the outlook period is likely to be mostly quiet.

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
26 August	232	202	1950	C2.2	8	1	0	5	0	0	0	0
27 August	221	170	1870	C2.2	7	1	0	3	0	0	0	0
28 August	212	163	1520	C2.4	5	0	0	0	0	0	0	0
29 August	204	124	1530	C2.3	6	0	0	4	0	0	0	0
30 August	214	143	1310	C2.6	9	2	0	4	1	0	0	0
31 August	232	180	1640	C3.1	6	4	0	6	0	0	0	0
01 September	226	156	1560	C3.3	7	4	0	8	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
26 August	3.4e+04	1.7e+04	3.3e+06
27 August	1.1e+05	1.7e+04	3.9e+06
28 August	9.8e+05	1.8e+04	9.1e+05
29 August	3.6e+05	1.7e+04	1.1e+06
30 August	4.1e+05	1.7e+04	1.1e+06
31 August	8.4e+05	1.7e+04	2.5e+06
01 September	1.4e+05	2.0e+04	4.6e+06

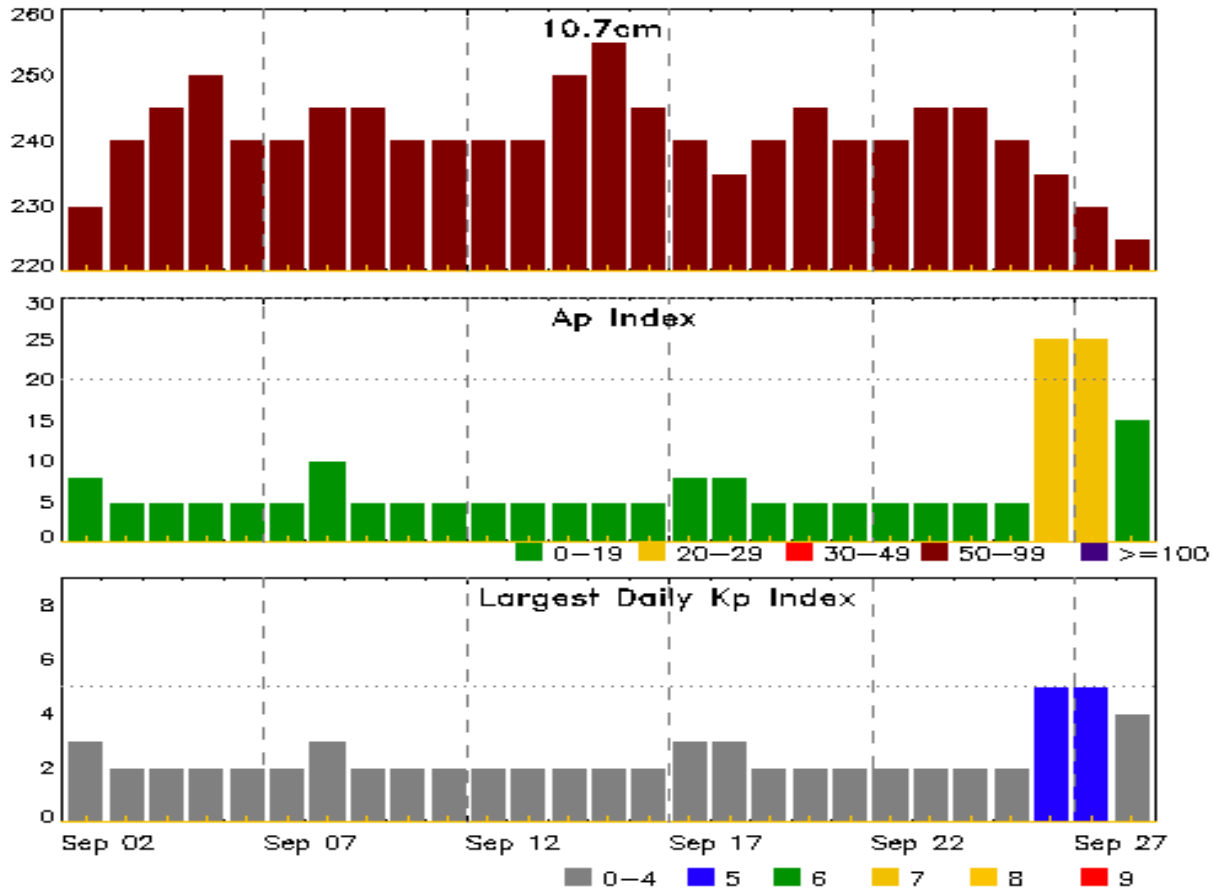
Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
26 August	4	2-1-1-2-2-1-1-0	9	1-1-1-4-4-2-0-0	5	2-1-1-2-2-1-0-1
27 August	11	0-1-3-2-3-3-3-3	8	0-0-1-2-4-3-1-2	11	1-1-3-2-3-3-3-4
28 August	30	5-3-5-3-3-6-3-2	35	5-5-6-4-5-3-1-2	26	6-4-5-3-3-3-2-3
29 August	5	2-1-1-1-3-1-1-1	3	1-1-1-0-1-1-1-1	5	2-1-1-1-2-1-0-1
30 August	16	2-1-3-3-4-4-3-3	25	2-1-2-4-5-5-5-3	23	2-1-4-3-4-4-4-5
31 August	19	4-3-4-2-3-4-3-3	41	3-4-7-2-4-6-3-3	26	4-4-5-2-3-5-4-3
01 September	16	3-3-2-4-4-3-3-2	27	4-4-3-4-5-5-3-2	22	4-4-2-3-3-3-3-2

Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
27 Aug 2323	WARNING: Geomagnetic K = 4	27/2323 - 28/0900
28 Aug 0004	ALERT: Geomagnetic K = 4	
28 Aug 0133	WARNING: Geomagnetic K = 5	28/0133 - 0900
28 Aug 0212	ALERT: Geomagnetic K = 5	
28 Aug 0223	WARNING: Geomagnetic K = 6	28/0223 - 0900
28 Aug 0301	ALERT: Geomagnetic K = 6	
28 Aug 0703	ALERT: Geomagnetic K = 5	
28 Aug 0728	EXTENDED WARNING: Geomagnetic K = 4	27/2323 - 28/2359
28 Aug 0732	EXTENDED WARNING: Geomagnetic K = 5	28/0133 - 1800
28 Aug 2113	WATCH: Geomagnetic Storm Category G1 predicted	
30 Aug 0849	WARNING: Geomagnetic K = 4	30/0849 - 1500
30 Aug 0852	ALERT: Geomagnetic K = 4	
30 Aug 1321	EXTENDED WARNING: Geomagnetic K = 4	30/0849 - 2359
30 Aug 2334	WARNING: Geomagnetic K = 5	30/2335 - 31/0900
30 Aug 2334	EXTENDED WARNING: Geomagnetic K = 4	30/0849 - 31/1200
30 Aug 2359	ALERT: Geomagnetic K = 5	
31 Aug 0856	EXTENDED WARNING: Geomagnetic K = 5	30/2335 - 31/1500
31 Aug 0856	EXTENDED WARNING: Geomagnetic K = 4	30/0849 - 31/1500
31 Aug 0914	ALERT: Geomagnetic K = 5	
31 Aug 1444	EXTENDED WARNING: Geomagnetic K = 4	30/0849 - 31/2100
31 Aug 1615	WARNING: Geomagnetic K = 5	31/1612 - 2100
31 Aug 1716	ALERT: Geomagnetic K = 5	
31 Aug 2055	EXTENDED WARNING: Geomagnetic K = 4	30/0849 - 31/2359
31 Aug 2321	EXTENDED WARNING: Geomagnetic K = 4	30/0849 - 01/1200
01 Sep 1158	EXTENDED WARNING: Geomagnetic K = 4	30/0849 - 01/1800
01 Sep 1303	ALERT: X-ray Flux exceeded M5	01/1300
01 Sep 1441	SUMMARY: X-ray Event exceeded M5	01/1141 - 1436
01 Sep 1755	EXTENDED WARNING: Geomagnetic K = 4	30/0849 - 02/0600

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
02 Sep	230	8	3	16 Sep	245	5	2
03	240	5	2	17	240	8	3
04	245	5	2	18	235	8	3
05	250	5	2	19	240	5	2
06	240	5	2	20	245	5	2
07	240	5	2	21	240	5	2
08	245	10	3	22	240	5	2
09	245	5	2	23	245	5	2
10	240	5	2	24	245	5	2
11	240	5	2	25	240	5	2
12	240	5	2	26	235	25	5
13	240	5	2	27	230	25	5
14	250	5	2	28	225	15	4
15	255	5	2				

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
26 Aug	1128	1141	1152	M1.4	0.015				3796			
27 Aug	0930	0943	0956	M1.1	0.017	SF	S04W41		3796			
30 Aug	0200	0206	0214	M1.2	0.008				3806			
30 Aug	1213	1220	1225	M3.8	0.012				3806			
31 Aug	0038	0049	0054	M1.1	0.008	SF	S11E47		3806			
31 Aug	0226	0238	0248	M1.2	0.012	SF	S08E45		3806			
31 Aug	0852	0859	0909	M1.2	0.011							
31 Aug	1250	1302	1311	M1.8	0.016				3806			
01 Sep	0747	0757	0806	M1.4	0.010							
01 Sep	1141	1322	1436	M5.5	0.420							
01 Sep	1955	2000	2011	M1.1	0.009							
01 Sep	2237	2248	2257	M1.5	0.013							

Flare List

	Time			Optical			
Date	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
26 Aug	0238	0247	0254	C3.7			3796
26 Aug	0254	0305	0321	C3.9			3800
26 Aug	0519	0528	0538	C6.9	SF	S04W24	3796
26 Aug	0538	0553	0616	C7.9			3796
26 Aug	0723	0811	0901	C9.0			3796
26 Aug	1054	1103	1112	C9.0			3796
26 Aug	1128	1141	1152	M1.4			3796
26 Aug	1252	1258	1307	C5.5			3796
26 Aug	1344	1348	1354		SF	S05W32	3796
26 Aug	1400	1403	1441		SF	S04W32	3796
26 Aug	1840	1847	1851	C3.6	SF	S09W34	3796
26 Aug	2316	2325	2340		SF	S08W36	3796
27 Aug	0058	0102	0106	C4.5			3800
27 Aug	0212	0219	0224	C3.1			3796
27 Aug	0320	0328	0335	C3.3			3800
27 Aug	0458	0508	0527	C3.7			3801
27 Aug	0801	0810	0814	C9.9	SF	S27W13	3800
27 Aug	0930	0943	0956	M1.1	SF	S04W41	3796
27 Aug	1234	1240	1245	C4.5			3800

Flare List

	Time			Optical			
Date	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
27 Aug	1535	1539	1549	C5.0			3800
27 Aug	B1908	1907	1908		SF	S32W34	3800
28 Aug	0124	0133	0151	C3.8			3796
28 Aug	1450	1458	1502	C5.0			3806
28 Aug	1754	1804	1809	C6.9			3806
28 Aug	1852	1900	1908	C5.3			3806
28 Aug	2032	2038	2042	C7.0			3801
29 Aug	0407	0418	0433	C7.0			3806
29 Aug	0526	0536	0545	C5.6			3796
29 Aug	1518	1537	1603	C5.3			3806
29 Aug	1748	1750	1755		SF	N09W24	3801
29 Aug	1825	1830	1834	C3.3			
29 Aug	1902	1906	1913	C4.0	SF	N06W25	3801
29 Aug	1952	1954	1958		SF	S11E61	3806
29 Aug	2006	2013	2019	C3.8	SF	N06W27	3801
30 Aug	0108	0126	0143	C6.5	1F	N10E24	3805
30 Aug	0137	0140	0140		SF	N10E24	3805
30 Aug	0143	0147	0153	C7.3			3803
30 Aug	0200	0206	0214	M1.2			3806
30 Aug	0735	0742	0746		SF	S17E07	
30 Aug	0847	0854	0858	C7.2			3806
30 Aug	0901	0907	0918	C6.1	SF	S10E59	3806
30 Aug	1213	1220	1225	M3.8			3806
30 Aug	1244	1253	1319	C6.3			
30 Aug	1349	1404	1411		SF	S15E05	3807
30 Aug	1506	1517	1526	C5.5			3807
30 Aug	1527	1537	1543	C6.9			3807
30 Aug	1743	1748	1755	C5.1			3807
30 Aug	2049	2057	2117	C5.8			
31 Aug	0014	0014	0016		SF	S15W03	3807
31 Aug	0038	0049	0054	M1.1	SF	S11E47	3806
31 Aug	0226	0238	0248	M1.2	SF	S08E45	3806
31 Aug	0847	0847	0851		SF	S16W10	3807
31 Aug	0852	0859	0909	M1.2			
31 Aug	1135	1143	1153	C9.0			3806
31 Aug	1250	1302	1311	M1.8			3806
31 Aug	B1502	1514	1525		SF	S16W12	3807
31 Aug	1738	1751	1808	C7.3			3806

Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
31 Aug	1844	1848	1855	C6.5			3808
31 Aug	2010	2018	2031	C8.4			3806
31 Aug	2330	2339	2348	C9.7	SF	S12E32	3806
31 Aug	2354	2359	0008	C7.4			3807
01 Sep	B0000	U0000	0011		SF	S17W12	3807
01 Sep	0219	0225	0229	C6.8	SF	S09W77	3799
01 Sep	0324	0333	0342	C9.4	SF	S12E31	3806
01 Sep	0527	0534	0540	C6.0			
01 Sep	0636	0643	0647	C7.4			
01 Sep	0716	0721	0727	C6.7			
01 Sep	0747	0757	0806	M1.4			
01 Sep	0749	0751	0754		SF	S16W24	3807
01 Sep	1048	1059	1102	C4.7			
01 Sep	1102	1123	1141	C8.0			
01 Sep	1141	1322	1436	M5.5			
01 Sep	1503	1506	1555		SF	S17W25	3807
01 Sep	1724	1730	1731		SF	S15W30	3807
01 Sep	1735	1744	1746		SF	S19W27	3807
01 Sep	1758	1803	1813		SN	S16W28	3807
01 Sep	1955	2000	2011	M1.1			
01 Sep	2237	2248	2257	M1.5			

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 3790												
15 Aug	S14E72	25	40	4	Cso	5	B								
16 Aug	S13E59	25	70	8	Dsi	6	B	5			4	1			
17 Aug	S13E46	25	120	9	Dsi	12	BG	1	2		9	1			
18 Aug	S12E33	24	280	10	Dkc	13	BG	2			3				
19 Aug	S12E19	25	400	10	Dkc	20	BG	2			3				
20 Aug	S13E04	27	400	10	Dkc	25	BG	1			7				
21 Aug	S11W08	26	500	10	Dkc	18	BG				2				
22 Aug	S12W21	25	470	10	Dkc	20	BG								
23 Aug	S11W35	26	370	10	Dkc	17	BG	1			2				
24 Aug	S11W48	26	430	9	Dkc	13	BG	2			2	1			
25 Aug	S11W60	25	370	9	Dkc	10	BG				1				
26 Aug	S13W74	26	350	9	Dkc	12	BG								
27 Aug	S13W88	26	280	7	Dki	12	BG								
								14	2	0	33	3	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 27

			Region 3791												
16 Aug	S20E47	37	20	3	Cao	4	B								
17 Aug	S18E34	37	10	2	Bxo	3	B								
18 Aug	S18E21	36	plage												
19 Aug	S18E06	38	plage												
20 Aug	S18W08	39	plage												
21 Aug	S18W22	40	plage												
22 Aug	S18W36	40	plage												
23 Aug	S18W50	41	plage												
24 Aug	S18W64	42	plage												
25 Aug	S18W78	43	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 38

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 3792												
16 Aug	S17E75	9	70	2	Hsx	1	A								
17 Aug	S16E60	11	220	5	Hsx	1	A				1				
18 Aug	S16E47	10	260	4	Hhx	1	A				1				
19 Aug	S17E33	11	350	5	Cho	1	B	1			1				
20 Aug	S17E20	11	400	5	Cko	2	B								
21 Aug	S18E07	11	400	5	Cko	1	B								
22 Aug	S17W06	10	400	5	Cko	4	B								
23 Aug	S18W21	12	260	4	Cko	4	B								
24 Aug	S17W32	10	310	3	Cko	4	B								
25 Aug	S17W45	10	310	3	Hhx	2	A	1							
26 Aug	S17W59	11	310	3	Hhx	3	A								
27 Aug	S17W73	11	320	3	Hhx	2	A								
28 Aug	S18W87	12	280	4	Hhx	2	A								
								2	0	0	3	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 10

			Region 3793												
17 Aug	N22E47	24	40	3	Dso	4	B								
18 Aug	N22E34	23	80	5	Dao	6	B	1							
19 Aug	N22E20	24	180	5	Dao	8	B	1							
20 Aug	N22E09	22	50	5	Dao	8	B				2				
21 Aug	N22W07	24	10	3	Bxo	2	B				1				
22 Aug	N22W18	22	10	2	Bxo	3	B								
23 Aug	N22W32	23	10	2	Axx	3	A								
24 Aug	N23W46	23	10	1	Axx	1	A								
25 Aug	N22W58	23	10	2	Bxo	4	B								
26 Aug	N22W72	24	plage												
27 Aug	N22W86	24	plage												
								2	0	0	3	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 24

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 3794												
17 Aug	N19E33	38	10	1	Hax	1	A								
18 Aug	N18E17	40	60	6	Cao	8	B								
19 Aug	N18E03	41	180	8	Dao	16	B	2							
20 Aug	N17W09	40	240	8	Dai	15	B								
21 Aug	N18W25	43	180	9	Dai	5	B				1				
22 Aug	N18W36	40	150	9	Dao	10	B								
23 Aug	N19W49	40	170	8	Cao	9	B	1							
24 Aug	N18W65	43	130	6	Cao	5	B				1				
25 Aug	N18W78	43	110	4	Cao	3	B	3			1				
26 Aug	N19W92	44	30	3	Cao	2	B								
								6	0	0	3	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 41

			Region 3795												
18 Aug	N04E69	348	10	1	Axx	1	A								
19 Aug	N02E55	348	plage												
20 Aug	N02E40	351	plage												
21 Aug	N02E25	353	plage												
22 Aug	N02E10	354	plage												
23 Aug	N02W05	356	plage												
24 Aug	N16W15	354	plage												
25 Aug	N02W24	349	plage												
26 Aug	N09W38	350	plage												
27 Aug	N09W52	350	plage												
28 Aug	N09W66	351	plage												
29 Aug	N09W80	352	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 356

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 3796													
18 Aug	S05E72	345	50	4	Cao	6	B		2		1				
19 Aug	S03E55	349	180	8	Dac	14	BG	1	1			1			
20 Aug	S04E41	350	240	6	Dac	14	BG		1		5				
21 Aug	S03E26	352	350	8	Dkc	16	BG		2		4		1		
22 Aug	S02E12	352	340	10	Dki	24	BG	6	1		6	1			
23 Aug	S03W03	353	380	10	Dki	28	BG					1			
24 Aug	S04W14	352	280	10	Dki	18	BG	3	3		5		1		
25 Aug	S04W26	351	200	9	Dso	12	BG				1				
26 Aug	S04W40	352	280	10	Dki	18	BG	7	1		5				
27 Aug	S04W53	351	240	9	Dsi	14	BG	1	1		1				
28 Aug	S04W68	353	140	9	Dsi	9	BG	1							
29 Aug	S04W81	353	30	7	Cso	3	B	1							
								20	12	0	28	3	2	0	0

Crossed West Limb.
Absolute heliographic longitude: 353

		Region 3798													
19 Aug	N06E74	330	50	4	Hsx	1	A								
20 Aug	N06E59	332	50	4	Hsx	1	A								
21 Aug	N06E48	330	60	2	Hsx	1	A								
22 Aug	N06E34	330	50	1	Hsx	1	A								
23 Aug	N06E21	330	40	1	Hsx	1	A								
24 Aug	N06E08	330	30	1	Hsx	1	A								
25 Aug	N06W04	329	40	1	Hsx	1	A								
26 Aug	N06W18	330	40	1	Hsx	1	A								
27 Aug	N06W32	330	30	1	Hsx	1	A								
28 Aug	N06W46	331	20	1	Hsx	1	A								
29 Aug	N04W59	331	40	2	Hsx	1	A								
30 Aug	N04W73	332	10	1	Axx	1	A								
31 Aug	N06W87	331	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 329

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 3799													
21 Aug	S09E59	319	110	8	Cso	14	B	1							
22 Aug	S09E48	316	130	9	Cao	7	B	2			4				
23 Aug	S10E35	316	280	7	Dki	13	BG	1			2				
24 Aug	S10E22	316	400	10	Dki	18	BG	2			2				
25 Aug	S10E10	315	350	10	Dki	14	BG								
26 Aug	S10W04	316	360	11	Eki	17	BG								
27 Aug	S10W18	316	350	11	Eki	11	BG								
28 Aug	S11W30	315	320	11	Cko	11	BG								
29 Aug	S11W42	314	320	6	Cko	5	BG								
30 Aug	S11W56	315	270	6	Cko	4	B								
31 Aug	S11W73	319	280	4	Cko	5	B								
01 Sep	S11W86	318	220	4	Hsx	1	A	1			1				
								7	0	0	9	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 316

		Region 3800													
22 Aug	S27E31	333	30	4	Cao	3	B				1				
23 Aug	S28E17	334	80	8	Cao	11	BG	2	5		8	1			
24 Aug	S28E05	333	80	13	Eai	16	BG	4	2		12	2			
25 Aug	S27W06	331	160	13	Eai	24	BG	10			8				
26 Aug	S27W20	332	360	14	Eki	20	BG	1							
27 Aug	S27W34	332	420	12	Ehi	15	BG	5			2				
28 Aug	S27W46	331	410	12	Ehi	13	BG								
29 Aug	S27W58	330	450	16	Fki	13	BG								
30 Aug	S28W74	333	260	16	Fko	4	B								
31 Aug	S28W88	334	220	15	Eso	3	B								
								22	7	0	31	3	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 333

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 3801												
22 Aug	N07E62	301	60	3	Cso	2	B	4			2	1			
23 Aug	N07E51	300	140	5	Cso	4	BG	5	3		8	1			
24 Aug	N07E39	299	110	4	Cso	6	BG				1				
25 Aug	N08E27	298	80	3	Cso	5	BG				1				
26 Aug	N08E13	299	130	10	Dso	11	BG								
27 Aug	N09W01	299	120	4	Cso	5	B	1							
28 Aug	N08W16	301	120	4	Cso	3	B	1							
29 Aug	N08W24	296	120	9	Cso	6	B	2			3				
30 Aug	N07W39	298	100	4	Cao	4	B								
31 Aug	N08W55	301	40	3	Cao	4	B								
01 Sep	N08W68	300	30	3	Bxo	2	B								
								13	3	0	15	2	0	0	0

Still on Disk.
Absolute heliographic longitude: 299

			Region 3802												
25 Aug	N13W34	359	10	4	Bxo	3	B								
26 Aug	N13W49	1	10	4	Bxo	3	B								
27 Aug	N13W63	1	10	3	Bxo	2	B								
28 Aug	N13W79	4	10	1	Axx	1	A								
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 359

			Region 3803												
26 Aug	N12E69	243	50	4	Dao	4	B								
27 Aug	N12E57	241	60	4	Dao	7	B								
28 Aug	N13E44	241	70	5	Dao	8	B								
29 Aug	N14E30	242	90	7	Cso	7	B								
30 Aug	N13E18	241	10	1	Axx	1	A	1							
31 Aug	N14E06	240	40	4	Cao	5	B								
01 Sep	N14W08	240	20	4	Bxo	4	B								
								1	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 240

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 3804												
26 Aug	S25E63	249	30	1	Hsx	1	A								
27 Aug	S25E49	249	40	2	Hsx	1	A								
28 Aug	S25E36	249	40	1	Hsx	1	A								
29 Aug	S25E24	248	100	3	Hsx	1	A								
30 Aug	S26E11	248	50	3	Hsx	1	A								
31 Aug	S24W02	248	50	3	Hsx	1	A								
01 Sep	S24W14	246	20	2	Hsx	1	A								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 248

			Region 3805												
28 Aug	N08E35	250	10	1	Axx	1	A								
29 Aug	N08E21	257	plage												
30 Aug	N08E07	252	plage					1			1	1			
31 Aug	N08W07	253	plage												
01 Sep	N08W21	253	plage												
								1	0	0	1	1	0	0	0

Still on Disk.
Absolute heliographic longitude: 252

			Region 3806												
28 Aug	S10E68	217	100	5	Dao	3	B	3							
29 Aug	S10E56	216	380	7	Dkc	8	B	2			1				
30 Aug	S11E40	219	450	24	Fkc	11	BGD	2	2		1				
31 Aug	S11E34	212	480	13	Ekc	25	BG	4	3		3				
01 Sep	S11E20	212	380	12	Ekc	22	BG	1			1				
								12	5	0	6	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 212

			Region 3807												
30 Aug	S18W04	263	70	6	Dsi	10	BG	3			1				
31 Aug	S16W18	264	320	11	Eki	20	BG	1			3				
01 Sep	S16W31	263	550	12	Eki	15	BG				6				
								4	0	0	10	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 263

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 3808												
30 Aug	S08E60	199	60	4	Dao	4	B								
31 Aug	S09E44	202	60	6	Cao	2	B	1							
01 Sep	S10E31	201	90	7	Cao	3	B								
								1	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 201

			Region 3809												
31 Aug	S20E39	207	20	2	Hsx	1	A								
01 Sep	S21E26	206	10	1	Axx	1	A								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 206

			Region 3810												
31 Aug	N16E35	210	10	3	Bxo	3	B								
01 Sep	N16E24	208	20	3	Bxo	3	B								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 208

			Region 3811												
31 Aug	S09E73	173	120	5	Hsx	1	A								
01 Sep	S10E56	176	220	8	Cso	4	B								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 176

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

Published every Monday by the Space Weather Prediction Center.

U.S. Department of Commerce
NOAA / National Weather Service
Space Weather Prediction Center
325 Broadway, Boulder CO 80305

Notice: The 27-day Outlook, Satellite Environment, X-ray and Proton plots have been redesigned. Comments and suggestions are welcome SWPC.Webmaster@noaa.gov

The Weekly has been published continuously since 1951 and is available online since 1997.

https://www.swpc.noaa.gov/products/weekly-highlights-and-27-day-forecast -- Current
ftp://ftp.swpc.noaa.gov/pub/warehouse -- Online archive from 1997
https://www.ngdc.noaa.gov/stp/satellite/goes-r.html -- NCEI GOES data textarchive
https://www.swpc.noaa.gov/products/solar-cycle-progression -- Solar Cycle Progression web site
https://www.swpc.noaa.gov/content/contact-us -- Contact and Copyright information
https://www.swpc.noaa.gov/sites/default/files/images/u2/Usr_guide.pdf -- User Guide