

Solar activity reached moderate levels on 19, 20 and 21 Aug and was at low levels on 17, 18, 22, and 23 Aug. Region 4513 (N04, L=50, class/area Ekc/260 on 22 Aug) was the main contributor of M-class flares, producing four out of the five M-flares observed. The largest, an M8.1/Sf flare that peaked at 20/1142 UTC, had an associated Type II radio sweep (estimated speed of 1201 km/s) and a non-Earth-directed CME. Region 4513 also produced an M1.0 flare at 19/1824 UTC, an M1.8/Sf flare at 20/0805 UTC, and an M2.9/Sf flare at 20/1611 UTC, as well as multiple C-class flares. Region 4507 (N04, L=197, class/area Ehi/300 on 18 Aug) added an M1.6 flare at 21/1017 UTC and multiple C-class flares as well.

Although proton levels never reached the S1 (Minor) storm threshold, the greater than 10 MeV flux levels at geosynchronous orbit were slightly enhanced between 3-6 pfu on 17-23 Aug. This enhancement was likely associated with an energetic event from at or just beyond the western limb on 21 Aug.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal to moderate levels on 17-20 and 23 Aug, and reached high levels on 21-22 Aug.

Geomagnetic field activity was at quiet to active levels on 17 Aug, reached G1 (Minor) storm levels on 18-19 Aug, quiet to unsettled on 20-21 Aug, and returned to quiet levels on 22-23 Aug. The elevated conditions on 17-19 Aug were attributed to the flanking influence from a CME that left the Sun on 14 Aug, combined with the onset of a CIR ahead of a negative polarity CH HSS. The slightly elevated activity continued on 20-21 Aug as influence from the negative polarity CH HSS persisted, and then decreased by 22-23 Aug.

Space Weather Outlook

24 August - 19 September 2026

Solar activity is expected to be at low levels, with a chance for M-class flares (R1/R2-Minor/Moderate) and a slight chance for X-class (R3-Strong) flares on 24 Aug - 03 Sep, mainly attributed to the flare activity and magnetic complexity of Region 4513. Activity is then likely to decrease to just a slight chance for M-class flares (R1/R2-Minor/Moderate) from 04 Sep - 19 Sep.

There is a slight chance for a greater than 10 MeV proton event on 24 Aug - 03 Sep, mainly attributed to the magnetic complexity of Region 4513. No proton events are expected from 04 Sep - 19 Sep.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at high levels on 24-27 and 30 Aug, and then again on 16-18 Sep. Normal to moderate levels are expected on 28-29 and 31 Aug, and then from 31 Aug- 15 Sep and 19 Sep,

Geomagnetic field activity is expected to be quiet to unsettled throughout the entire period, with



a chance for active conditions 28 Aug, and 13-14 Sep, all attributed to coronal hole high speed stream influence.



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
17 August	124	76	490	B6.3	9	0	0	17	0	0	0	0
18 August	125	71	510	B8.6	5	0	0	2	0	0	0	0
19 August	126	78	560	B9.4	18	1	0	5	0	0	0	0
20 August	125	72	530	C1.1	16	3	0	8	1	0	0	0
21 August	126	59	260	B9.6	12	1	0	5	0	0	0	0
22 August	124	87	340	B7.1	1	0	0	3	0	0	0	0
23 August	128	73	320	B7.3	9	0	0	7	2	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	
17 August	2.6e+05	2.0e+04	1.5e+07	
18 August	1.6e+06	2.0e+04	1.3e+07	
19 August	4.8e+05	2.0e+04	1.7e+07	
20 August	1.7e+05	2.1e+04	3.4e+07	
21 August	3.2e+05	5.3e+04	7.7e+07	
22 August	1.6e+06	3.5e+05	1.2e+08	
23 August	2.2e+06	2.9e+05	9.0e+07	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
17 August	19	0-0-0-0-0-3-4-3	7	0-0-0-0-0-2-2-2	11	2-1-2-1-2-3-4-4
18 August	20	4-5-3-2-3-2-4-3	31	5-6-5-3-2-2-3-4	25	4-5-3-2-2-2-5-4
19 August	15	2-4-3-4-3-2-2-3	37	2-5-5-7-3-3-2-3	20	3-5-4-4-3-2-2-3
20 August	11	2-2-2-3-3-2-3-3	18	3-2-2-2-5-5-2-2	11	3-2-2-2-3-2-3-3
21 August	9	3-3-2-2-3-1-2-1	8	3-2-2-3-2-1-1-1	8	3-2-2-2-2-1-2-2
22 August	5	1-0-1-2-3-1-2-1	3	1-1-0-2-1-1-1-0	4	1-1-1-1-1-1-1-1
23 August	6	0-2-2-2-3-0-2-2	5	1-1-3-2-1-1-1-1	3	1-2-2-2-2-1-2-2

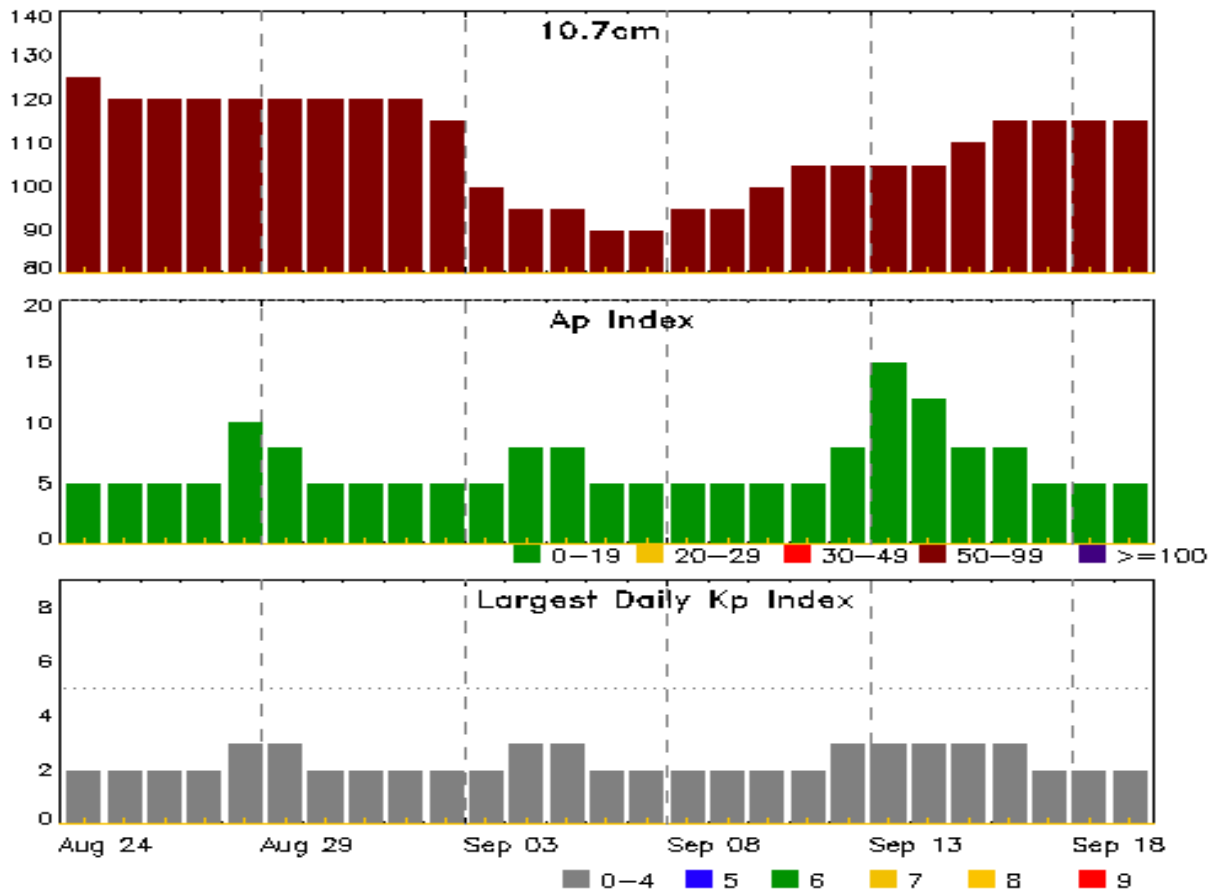


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
17 Aug 1719	ALERT: Type II Radio Emission	17/1637
17 Aug 2101	WARNING: Geomagnetic K = 4	17/2101 - 18/0600
17 Aug 2105	ALERT: Geomagnetic K = 4	17/2059
17 Aug 2246	WATCH: Geomagnetic Storm Category G1 predicted	
18 Aug 0227	EXTENDED WARNING: Geomagnetic K = 4	17/2101 - 18/1500
18 Aug 0227	WARNING: Geomagnetic K = 5	18/0224 - 1200
18 Aug 0506	ALERT: Geomagnetic K = 5	18/0505
18 Aug 1431	EXTENDED WARNING: Geomagnetic K = 4	17/2101 - 18/2359
18 Aug 2043	WARNING: Geomagnetic K = 5	18/2042 - 19/1200
18 Aug 2045	ALERT: Geomagnetic K = 5	18/2045
18 Aug 2052	EXTENDED WARNING: Geomagnetic K = 4	17/2101 - 19/1800
19 Aug 0545	ALERT: Geomagnetic K = 5	19/0545
19 Aug 1757	EXTENDED WARNING: Geomagnetic K = 4	17/2101 - 20/0900
20 Aug 1139	ALERT: X-ray Flux exceeded M5	20/1138
20 Aug 1158	ALERT: Type II Radio Emission	20/1136
20 Aug 1212	SUMMARY: X-ray Event exceeded M5	20/1132 - 1154
20 Aug 2049	ALERT: Type II Radio Emission	20/1848
21 Aug 0945	SUMMARY: 10cm Radio Burst	21/0926 - 0934
21 Aug 1118	ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	21/1105
22 Aug 0500	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	21/1105
23 Aug 0921	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	21/1105



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
24 Aug	125	5	2	07 Sep	90	5	2
25	120	5	2	08	95	5	2
26	120	5	2	09	95	5	2
27	120	5	2	10	100	5	2
28	120	10	3	11	105	5	2
29	120	8	3	12	105	8	3
30	120	5	2	13	105	15	3
31	120	5	2	14	105	12	3
01 Sep	120	5	2	15	110	8	3
02	115	5	2	16	115	8	3
03	100	5	2	17	115	5	2
04	95	8	3	18	115	5	2
05	95	8	3	19	115	5	2
06	90	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		II	IV
									245	2695		
19 Aug	1824	1851	1910	M1.0	0.019			4513				
20 Aug	0731	0805	0817	M1.8	0.027	SF	N04E73	4513				
20 Aug	1132	1142	1154	M8.1	0.076	SF	N06E79	4513	110		3	
20 Aug	1552	1611	1621	M2.9	0.027	1F	N03E71	4513	100			
21 Aug	0909	1017	1149	M1.6	0.110			4507	4200	110		

Flare List

Date	Time			X-ray Class	Optical		
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	Rgn #
17 Aug	0213	0224	0234	C2.3			4507
17 Aug	0557	0622	0648	C2.0			4510
17 Aug	0707	U0709	0717		SF	N03W31	4507
17 Aug	0812	U0814	0827		SF	N13W60	4510
17 Aug	0830	0851	0855		SF	N13W60	4510
17 Aug	0915	U0925	0935		SF	N13W61	4510
17 Aug	0944	0955	1000		SF	N13W61	4510
17 Aug	1009	1022	1027	C1.3			4510
17 Aug	1027	1030	1040	C1.7			4507
17 Aug	B1045	U1045	A1048		SF	N12W62	4510
17 Aug	1051	1058	1102	C1.6			4507
17 Aug	1618	1653	1705	C2.0	SF	N10W66	4510
17 Aug	1705	1717	1722	C1.7			4510
17 Aug	1742	1747	1749	C3.2	SF	N10W66	4510
17 Aug	1755	1822	1826		SF	N10W66	4510
17 Aug	1801	1801	1802		SF	N04W40	4507
17 Aug	1829	1837	1846		SF	N10W66	4510
17 Aug	1920	1922	1923		SF	N10W66	4510
17 Aug	1928	1935	1942	C1.4			4510
17 Aug	1958	2039	2136		SF	N10W67	4510
17 Aug	2128	2129	2142		SF	N04W42	4507
17 Aug	2143	2145	2148		SF	N10W67	4510
17 Aug	2214	2218	2221		SF	N04W42	4507
17 Aug	2241	2241	2253		SF	N10W67	4510
18 Aug	0640	0643	0645	C3.9	SF	N03W50	4507
18 Aug	0700	0707	0712	C1.7			4506



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/Brtns	Location Lat CMD	Rgn #
18 Aug	1244	U1244	A1253		SF	N06W50	4507
18 Aug	1951	1956	1959	C2.0			4507
18 Aug	2238	2243	2246	C2.3			4507
18 Aug	2328	2340	2351	C2.8			
19 Aug	0006	0037	0112	C3.9			4507
19 Aug	0227	0231	0233	C2.0			4507
19 Aug	0251	0256	0258	C3.9			4507
19 Aug	0330	0346	0401	C3.0			
19 Aug	0445	0454	0503	C5.0			
19 Aug	0631	0636	0650	C1.3	SF	N04W63	4507
19 Aug	0830	0844	0901	C2.7	SF	N02W64	4507
19 Aug	0901	0910	0914	C2.0			
19 Aug	1101	1105	1111	C1.3	SF	N04W60	4507
19 Aug	1129	1136	1141	C1.5			
19 Aug	1228	1231	1235	C1.3			
19 Aug	1327	1339	1346	C4.9	SF	N11W78	4506
19 Aug	1402	1407	1409	C3.6	SF	N00W56	4507
19 Aug	1509	1517	1519	C5.7			4513
19 Aug	1633	1638	1642	C3.4			4510
19 Aug	1712	1717	1720	C2.4			4507
19 Aug	1824	1851	1910	M1.0			4513
19 Aug	2151	2200	2206	C1.7			
19 Aug	2346	2354	0004	C2.0			4513
20 Aug	0041	0049	0057	C1.7			4513
20 Aug	0100	0104	0108	C2.0	SF	N03E73	4513
20 Aug	0336	0343	0349	C1.5			4513
20 Aug	0359	0408	0410	C3.3			4507
20 Aug	0437	0449	0456	C3.1			4513
20 Aug	0627	0631	0633	C1.5			4507
20 Aug	0731	0805	0817	M1.8	SF	N04E73	4513
20 Aug	0834	0835	0837		SF	N12W88	4506
20 Aug	1012	1019	1024	C2.4			4507
20 Aug	1119	1129	1132	C8.0			
20 Aug	1132	1142	1154	M8.1	SF	N06E79	4513
20 Aug	1234	1242	1251		SF	N01W82	4507
20 Aug	1503	1504	1509	C1.6	SF	N05E67	4513
20 Aug	1552	1611	1621	M2.9	1F	N03E71	4513
20 Aug	1714	1714	1726	C2.4	SF	N04E67	4513



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
20 Aug	1745	1752	1803	C2.6	SF	S00W79	4507
20 Aug	1939	1954	2003	C1.8			4513
20 Aug	2003	2008	2010	C2.0			4513
20 Aug	2058	2108	2113	C2.7			4513
20 Aug	2230	2234	2251	C1.5			4513
20 Aug	2334	2344	2347	C3.5			4507
21 Aug	0013	0025	0035	C2.4			4507
21 Aug	0137	0201	0206	C4.1			4507
21 Aug	0206	0220	0242	C6.7			
21 Aug	0347	0352	0357	C1.3			4513
21 Aug	0502	0509	0514	C1.5			4513
21 Aug	0539	0552	0615	C1.8			4513
21 Aug	0626	0635	0641	C6.2	SF	N06E60	4513
21 Aug	0704	0712	0718	C1.9			4514
21 Aug	0727	0732	0738	C2.1			4507
21 Aug	0909	1017	1149	M1.6			4507
21 Aug	1343	1344	1346		SF	N07E54	4513
21 Aug	1438	1438	1443		SF	N05E54	4513
21 Aug	1745	1753	1801	C3.4	SF	N08E64	4513
21 Aug	1825	1832	1835	C2.0	SF	N09E63	4513
21 Aug	2045	2059	2107	C4.0			4513
22 Aug	1325	1326	1331		SF	N10E42	4513
22 Aug	1814	1823	1829	C1.4			4513
22 Aug	2000	2009	2020	B9.3			
22 Aug	2153	2154	2156		SF	N10E42	4513
22 Aug	2344	2344	2355		SF	N10E42	4513
23 Aug	0043	0043	0049		SF	N10E42	4513
23 Aug	0423	0432	0441	C1.1			4513
23 Aug	0457	0505	0512	C1.1			4513
23 Aug	0624	0653	0717	C4.1	SF	N04E32	4513
23 Aug	0653	0653	0709		SF	N03E35	4513
23 Aug	1001	1008	1011	C1.7			4514
23 Aug	1113	1118	1136	B8.6			
23 Aug	1311	1315	1318	C1.7			
23 Aug	1334	1342	1349	C1.0			4513
23 Aug	1338	1340	1346		SF	N09E17	4517
23 Aug	1616	1628	1645	C1.4	SF	N06E30	4513
23 Aug	1921	1936	2002	C2.7	1F	N06E24	4513



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
23 Aug	1942	1945	2008	C3.5	SF	N18W38	4516
23 Aug	2147	2203	2219		1F	N09E26	4513
23 Aug	2350	2353	2356		SF	N09E26	4513



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
<i>Region 4503</i>																
04 Aug	S18E65	262	10	1	Axx	1	A		2							
05 Aug	S18E54	260	20	7	Cro	4	B									
06 Aug	S17E41	260	15	7	Dro	4	B									
07 Aug	S17E27	261	10	8	Bxo	3	B									
08 Aug	S16E10	264	10	1	Axx	1	A									
09 Aug	S16W03	265	10	1	Axx	1	A									
10 Aug	S18W13	261	20	5	Bxi	7	B									
11 Aug	S17W26	261	10	5	Bxo	6	B									
12 Aug	S17W39	261	40	5	Dao	6	B									
13 Aug	S17W53	261	30	5	Cao	3	B									
14 Aug	S17W67	262	30	3	Cao	3	B		1			1				
15 Aug	S17W81	263	70	7	Cso	3	B									
									3	0	0	1	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 265

Region 4504															
06 Aug	S20E59	243	plage					1							
07 Aug	S20E45	243	10	7	Bxi	10	BG								
08 Aug	S18E31	243	10	4	Bxo	4	G								
09 Aug	S19E18	243	10	8	Bxo	7	B								
10 Aug	S19W00	248	10	1	Axx	1	A								
11 Aug	S19W14	249	plage												
12 Aug	S19W28	250	plage												
13 Aug	S19W42	250	plage												
14 Aug	S19W56	251	plage												
15 Aug	S19W70	252	plage												
16 Aug	S19W84	253	plage												
								1	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 248



Region Summary - continued

Date	Location		Sunspot Characteristics					Flares								
	Lat CMD	Helio	Area 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical					
		Lon						C	M	X	S	1	2	3	4	
<i>Region 4506</i>																
10 Aug	N10E41	207	10	2	Bxo	2	B									
11 Aug	N11E26	209	10	3	Bxo	6	B									
12 Aug	N12E10	212	20	7	Cri	11	B					1				
13 Aug	N12W03	211	20	8	Bxo	4	B									
14 Aug	N11W17	212	10	2	Bxo	4	B	1				1				
15 Aug	N11W31	213	10	6	Dri	6	B	2				1				
16 Aug	N12W46	215	100	8	Dao	7	BG	9				6				
17 Aug	N12W58	213	90	7	Dao	6	B									
18 Aug	N12W72	214	80	8	Dao	6	B	1								
19 Aug	N12W86	215	30	7	Dao	4	B	1				1				
								14	0	0	0	10	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 211

Region 4507

11 Aug	N04E43	192	30	3	Cri	8	B	2			4				
12 Aug	N04E29	193	80	7	Dso	7	B								
13 Aug	N04E15	193	100	9	Dso	11	BG								
14 Aug	N04W00	195	110	10	Dsi	17	B								
15 Aug	N04W15	197	140	10	Dai	13	B	2			2				
16 Aug	N04W29	198	240	12	Eai	20	BG	4			4				
17 Aug	N04W41	196	280	12	Eki	20	BG	3			4				
18 Aug	N04W55	197	300	13	Ehi	15	BGD	3			2				
19 Aug	N04W69	198	300	11	Ehi	13	BGD	8			4				
20 Aug	N04W82	198	300	11	Ehi	13	BG	5			2				
								27	0	0	22	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 195



Region Summary - continued

Date	Location	Sunspot Characteristics						Flares							
	Lat CMD	Helio	Area 10 ⁻⁶ hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical				
		Lon						C	M	X	S	1	2	3	4
Region 4508															
11 Aug	N06E70	165	130	3	Hsx	2	A	1							
12 Aug	N07E56	166	120	3	Hax	2	A	1							
13 Aug	N07E43	166	100	2	Hax	2	A								
14 Aug	N07E27	168	80	4	Cso	3	B	2			2	1			
15 Aug	N08E15	167	60	2	Cso	3	B	1				1			
16 Aug	N07E03	166	90	6	Cso	2	B	1							
17 Aug	N08W09	164	90	6	Cao	3	B								
18 Aug	N08W23	165	90	5	Cao	5	B								
19 Aug	N08W37	166	90	4	Cso	4	B								
20 Aug	N09W50	166	30	3	Hrx	2	A								
21 Aug	N09W64	167	30	3	Hrx	2	A								
22 Aug	N09W77	166	10	1	Hsx	1	A								
23 Aug	N08W86	166	plage												
								6	0	0	2	2	0	0	0

Still on Disk.

Absolute heliographic longitude: 166

Region 4510

13 Aug	N12W14	222	10	6	Bxo	5	B								
14 Aug	N12W29	224	10	4	Cro	3	B								
15 Aug	N12W44	226	10	3	Hrx	1	A								
16 Aug	N13W59	228	10	1	Axx	1	A								
17 Aug	N12W68	223	30	4	Cai	7	B	6			13				
18 Aug	N12W81	223	40	5	Dao	5	B								
19 Aug	N12W95	224	40	5	Dao	5	B	1							
								7	0	0	13	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 222



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 4511

13 Aug	S09E67	141	10	1	Axx	1	A								
14 Aug	S09E53	142	10	1	Axx	1	A								
15 Aug	S09E40	142	10	1	Axx	1	A								
16 Aug	S09E26	143	plage												
17 Aug	S09E12	143	plage												
18 Aug	S09W02	144	plage												
19 Aug	S09W16	145	plage												
20 Aug	S09W30	146	plage												
21 Aug	S09W44	147	plage												
22 Aug	S09W58	147	plage												
23 Aug	S09W72	148	plage												
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 144

Region 4512

15 Aug	S19W15	196	10	3	Cro	2	B								
16 Aug	S20W28	197	plage												
17 Aug	S20W42	197	plage												
18 Aug	S20W56	198	plage												
19 Aug	S20W70	199	plage												
20 Aug	S20W84	200	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 196

Region 4513

19 Aug	N03E81	47	100	6	Dao	2	B	2	1						
20 Aug	N04E69	46	180	8	Dac	12	B	10	3		5	1			
21 Aug	N04E55	48	200	14	Eac	12	BGD	7			5				
22 Aug	N04E39	50	260	14	Ekc	18	BG	1			3				
23 Aug	N04E25	50	260	12	Ekc	24	BG	7			5	2			
								27	4	0	18	3	0	0	0

Still on Disk.

Absolute heliographic longitude: 50



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 4514

20 Aug	S10W56	172	20	4	Cro	5	B								
21 Aug	S10W70	173	20	4	Cro	4	B	1							
22 Aug	S10W85	174	10	1	Axx	1	A								
								1	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 172

Region 4515

21 Aug	S08E63	40	10	1	Hrx	1	A								
22 Aug	S08E49	40	40	2	Hsx	1	A								
23 Aug	S07E36	39	30	1	Hsx	1	A								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 39

Region 4516

22 Aug	N16W30	119	10	2	Bxo	4	B								
23 Aug	N17W44	119	10	2	Bxo	3	B				1				
								0	0	0	1	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 119

Region 4517

22 Aug	N10E25	64	10	4	Bxo	2	B								
23 Aug	N10E11	64	20	5	Dao	5	B				1				
								0	0	0	1	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 64



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

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