Space Weather Highlights **SWPC PRF 2524**
08 January - 14 January 2024 **15 January 2024**

Solar activity was at low levels on 08-09 Jan, reached moderate levels on 10-12 Jan, and returned back to low levels on 13-14 Jan. Multiple M1 flares (R1/Minor) occurred on 10-12 Jan from Regions 3538 (N20, L=176, class/area Cai/080 on 09 Jan), 3539 (N10, L=139, class/area Dai/230 on 11 Jan), and 3547 (N19, L=064, class/area Cso/050 on 12 Jan). Two CMEs were modelled over the period from 09-10 Jan with potential for grazing blows. The first was an approximate 50 degree filament eruption centered near S42E43 that began after 09/1400 UTC. An associated CME was observed off the SE limb beginning at 09/1536 UTC. Modelling of the event showed a potential grazing late on 13 Jan. The second event was associated with a C6.5 flare at 10/1907 UTC from Region 3536 (N06, L=151, class/area Eko/250 on 03 Jan). A subsequent CME was observed off the W limb at 10/1924 UTC. Modelling indicated the potential for a grazing late on 14 Jan.

No proton events were observed at geosynchronous orbit.

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

Geomagnetic field activity was mostly quiet with an isolated unsettled period on 09 Jan. Solar wind parameters were near nominal levels throughout with slightly increased total field measurements between 08/1650-11/0100 UTC and between 14/0315-14/2100 UTC. Solar wind speed showed an increase from 300 km/s to near 470 km/s between 08/0000-11/2200 UTC. Afterward, speed, temperature, and density values appeared to be suspect due to low densities in the solar wind. A comparison with the University of Maryland SOHO/CELIAS/MTOF/PM appeared to show a drop in solar wind speed starting late on 11 Jan.

Space Weather Outlook
15 January - 10 February 2024

Solar activity is expected to be primarily at low levels with a chance for M-class (R1-R2/Minor-Moderate) flares on 15 Jan-10 Feb.

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 on 15 Jan-10 Feb.

Geomagnetic field activity is expected to reach unsettled levels with a chance for isolated active periods on 16-18 Jan and again on 28-30 Jan due to recurrent CH HSS 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
08 January	176	152	700	C1.2	10	0	0	4	0	1	0	0
09 January	176	183	1060	C1.2	10	0	0	5	0	0	0	0
10 January	186	183	1200	C2.0	15	2	0	3	0	0	0	0
11 January	193	151	810	C2.0	15	3	0	11	0	0	0	0
12 January	186	188	800	C1.7	11	1	0	11	0	0	0	0
13 January	185	191	990	C1.4	2	0	0	5	0	0	0	0
14 January	188	183	940	C1.4	12	0	0	3	1	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
08 January	5.5e+06	5.9e+04	2.8e+06
09 January	2.4e+06	3.3e+04	1.7e+06
10 January	9.9e+05	2.5e+04	1.3e+06
11 January	3.6e+05	2.1e+04	1.7e+06
12 January	1.8e+05	1.9e+04	2.3e+06
13 January	2.0e+05	1.8e+04	3.0e+06
14 January	3.6e+05	2.1e+04	2.0e+06

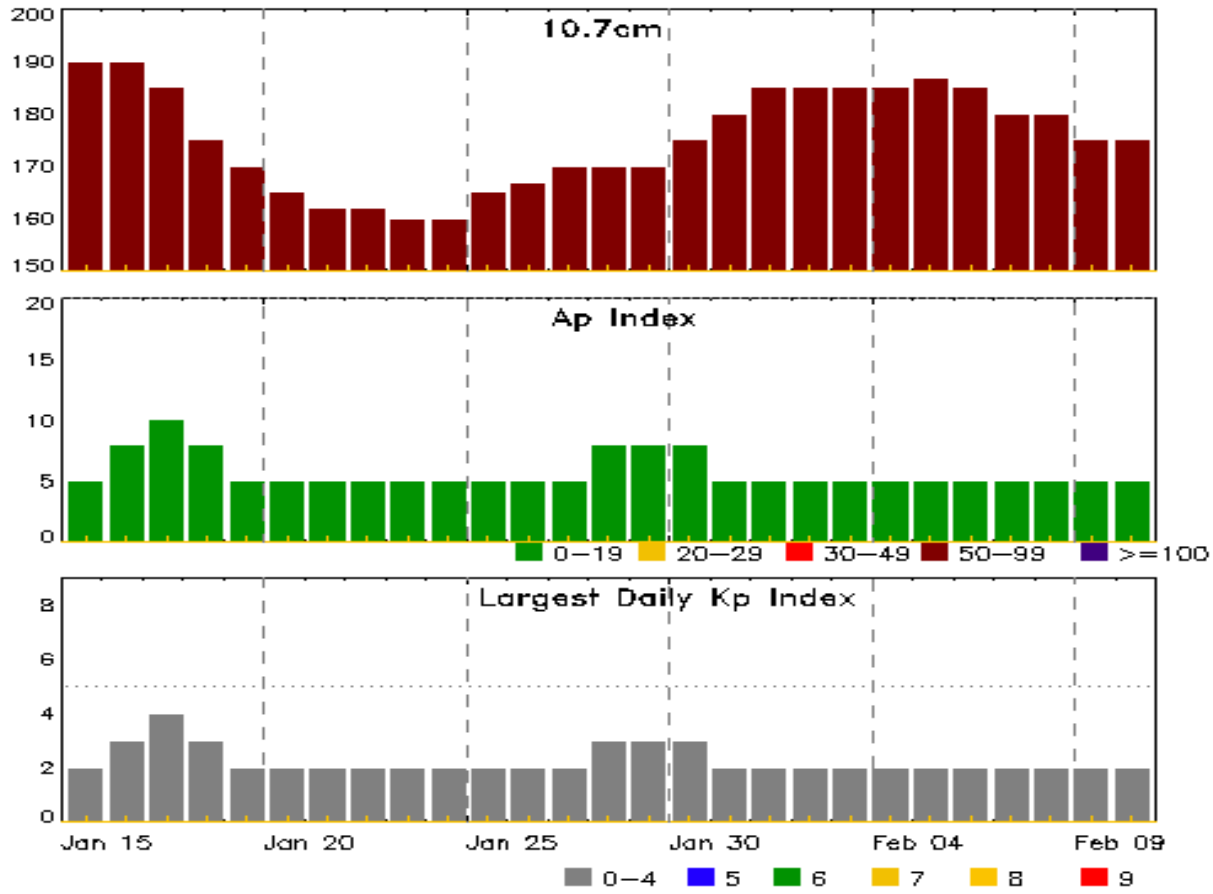
Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
08 January	4	0-1-0-1-2-2-2-1	3	0-0-0-1-3-1-0-1	4	0-1-0-1-2-1-2-2
09 January	5	1-1-3-1-1-2-1-1	4	1-0-2-3-2-1-0-0	6	2-2-3-1-1-2-1-1
10 January	7	1-2-1-3-2-2-2-1	13	0-0-0-5-5-1-1-0	7	2-2-1-2-2-2-2-2
11 January	4	0-1-1-2-2-2-1-1	11	0-0-3-3-5-1-0-1	6	1-1-2-2-2-1-1-2
12 January	4	0-2-1-2-2-2-1-0	4	0-0-1-2-2-3-0-0	4	1-1-1-1-1-1-1-1
13 January	3	1-0-0-2-2-2-1-0	1	0-0-1-1-0-0-0-0	3	1-0-0-1-1-1-1-1
14 January	5	0-1-2-1-2-1-2-2	10	0-1-2-4-3-3-2-1	4	1-1-2-2-2-2-2-2

Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
10 Jan 1920	SUMMARY: 10cm Radio Burst	10/1901 - 1904
14 Jan 1204	ALERT: Type II Radio Emission	14/1146

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
15 Jan	190	5	2	29 Jan	170	8	3
16	190	8	3	30	175	8	3
17	185	10	4	31	180	5	2
18	175	8	3	01 Feb	185	5	2
19	170	5	2	02	185	5	2
20	165	5	2	03	185	5	2
21	162	5	2	04	185	5	2
22	162	5	2	05	187	5	2
23	160	5	2	06	185	5	2
24	160	5	2	07	180	5	2
25	165	5	2	08	180	5	2
26	167	5	2	09	175	5	2
27	170	5	2	10	175	5	2
28	170	8	3				

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
10 Jan	1239	1255	1305	M1.4	0.016								
10 Jan	2318	2328	2335	M1.9	0.010	SF	N22	W77	3538				
11 Jan	1244	1251	1255	M1.3	0.006				3538	130			
11 Jan	1749	1752	1759	M1.5	0.007				3539				
11 Jan	1908	1923	1949	M1.2	0.022				3538	390			
12 Jan	0255	0258	0302	M1.0	0.003	SN	N18	E20	3547				

Flare List

	Time			Optical			
Date	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
08 Jan	0248	0252	0259	C2.4	SF	S19E45	3540
08 Jan	0459	0500	0501		SF	S08W23	3543
08 Jan	0800	0807	0813	C1.7			3538
08 Jan	0805	0807	0810		SF	N18W46	3538
08 Jan	0813	0824	0838	C2.8	SF	N19W14	3542
08 Jan	0946	0959	1015	C7.3	2N	N10W10	3539
08 Jan	1511	1522	1533	C2.9			3542
08 Jan	1542	1550	1559	C5.7			3538
08 Jan	1915	1930	1941	C4.0			3538
08 Jan	2054	2107	2110	C2.0			3538
08 Jan	2110	2116	2120	C2.1			3538
08 Jan	2120	2124	2128	C2.1			3538
09 Jan	0243	0249	0255	C1.9			3541
09 Jan	0401	0411	0414	C3.1			3538
09 Jan	0836	0850	0859	C2.5			3538
09 Jan	1107	1123	1134	C3.8			3541
09 Jan	1446	1454	1457	C1.9			3538
09 Jan	1457	1503	1507	C1.9			3538
09 Jan	1531	1708	1713		SF	N20W66	3538
09 Jan	1639	1640	1642		SF	S25E25	3540
09 Jan	1702	1710	1719	C2.7			3538
09 Jan	1725	1726	1729		SF	N19W69	3538
09 Jan	1740	1744	1746		SF	N20W71	3538
09 Jan	1900	1905	1913	C1.8			3536
09 Jan	1932	1936	1943	C3.9	SF	N19W68	3538

Flare List

Date	Time			X-ray	Optical		
	Begin	Max	End	Class	Imp/ Brtns	Location Lat CMD	Rgn #
09 Jan	2351	2356	0000	C2.4			3536
10 Jan	0202	0212	0230	C3.3			3546
10 Jan	0240	0246	0250	C3.2			3538
10 Jan	0307	0316	0318	C5.4			
10 Jan	0318	0325	0329	C9.6			3538
10 Jan	0429	0433	0437	C7.0			3538
10 Jan	0533	0545	0602	C7.0			
10 Jan	0648	0656	0703	C6.6			
10 Jan	0856	0903	0923	C3.5			
10 Jan	0959	1006	1010	C5.2	SF	N21W72	3538
10 Jan	1239	1255	1305	M1.4			
10 Jan	1412	1427	1441	C4.5			
10 Jan	1510	1515	1520	C4.0			
10 Jan	1605	1606	1616		SF	S20E09	3540
10 Jan	1856	1907	1916	C6.5			3536
10 Jan	1953	2000	2005	C3.0			3538
10 Jan	2028	2041	2100	C5.6			
10 Jan	2153	2201	2205	C6.0			
10 Jan	2318	2328	2335	M1.9	SF	N22W77	3538
11 Jan	0108	0112	0118	C5.2	SF	N09W43	3539
11 Jan	0339	0343	0348	C4.6	SF	S25E35	3546
11 Jan	0406	0415	0422	C3.1	SF	N09W46	3539
11 Jan	0540	0542	0543		SF	S25E33	3546
11 Jan	0605	0605	0608		SF	S23E03	3540
11 Jan	0615	0619	0626	C7.8	SF	N13W47	3539
11 Jan	0638	0639	0642		SF	N22W84	3538
11 Jan	0801	0803	0808	C4.1	SF	S22E02	3540
11 Jan	0854	0901	0910	C6.4	SF	N09W52	3539
11 Jan	1002	1009	1014	C3.0			3539
11 Jan	1031	1042	1050	C3.9			3538
11 Jan	1124	1134	1139	C4.2			
11 Jan	1158	1209	1225	C9.4			3538
11 Jan	1244	1251	1255	M1.3			3538
11 Jan	1559	1611	1618	C3.6			3538
11 Jan	1618	1632	1643	C6.4			
11 Jan	1643	1646	1650	C8.3			
11 Jan	1749	1752	1759	M1.5			3539
11 Jan	1908	1923	1949	M1.2			3538

Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
11 Jan	2245	2254	2300	C3.6	SF	N09W60	3539
11 Jan	2300	2311	2320	C4.6	SF	N10E54	3539
12 Jan	0255	0258	0302	M1.0	SN	N18E20	3547
12 Jan	0350	0359	0410	C5.7	SF	N10W57	3539
12 Jan	0410	0415	0419	C6.0	SF	N12E56	3548
12 Jan	0429	0429	0431		SF	N11E51	
12 Jan	0608	0615	0622	C3.8	SF	N11E51	3548
12 Jan	0623	0628	0633	C4.4			3539
12 Jan	0814	0820	0824	C3.7			3539
12 Jan	B0844	U0847	A0848		SF	N11E50	
12 Jan	B0850	U0855	A0901		SF	N11E50	
12 Jan	0959	1006	1011	C5.9	SF	S22W13	3541
12 Jan	1005	1006	1010		SF	S17W11	3540
12 Jan	1056	1057	1103		SF	S22W14	
12 Jan	1103	1115	1136	C3.9			3537
12 Jan	1136	1142	1151	C3.8			3536
12 Jan	1532	1538	1553	C3.2	SF	N10W69	3539
12 Jan	1701	1716	1736	C4.7			3538
12 Jan	2226	2240	2302	C3.8			3538
13 Jan	0414	0421	0425	C2.7			
13 Jan	1721	1721	1738		SF	S21W31	3541
13 Jan	1747	1751	1753		SF	S21W34	3541
13 Jan	1945	1948	1952		SF	S21W33	3541
13 Jan	2049	2050	2053		SF	S08E19	3545
13 Jan	2322	2326	2333	C2.3	SF	S21W35	3541
14 Jan	0012	0022	0029	C4.2			3539
14 Jan	0135	0138	0142	C2.0			3541
14 Jan	0249	0256	0308	C2.0			3545
14 Jan	0425	0434	0503	C1.9			3545
14 Jan	0658	0719	0727	C2.6			
14 Jan	0727	0730	0735	C2.8	SF	S19W42	3541
14 Jan	1109	1119	1130	C2.7			3541
14 Jan	1130	1206	1226	C9.6			
14 Jan	1300	1308	1316	C7.2			3549
14 Jan	1654	1701	1707	C5.8	1N	S22W43	3541
14 Jan	1840	1844	1850	C3.2			3549
14 Jan	1858	1902	1951		SF	S19E43	3549
14 Jan	1906	1907	1911		SF	S17W48	3541

Flare List

	Time			Optical			
Date	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
14 Jan	1949	1953	1958	C3.0			3541

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 3534												
27 Dec	S12E60	218	20	3	Cro	4	B	2							
28 Dec	S12E47	220	20	8	Cro	5	B	1							
29 Dec	S13E30	223	90	9	Dao	9	B								
30 Dec	S13E15	226	150	9	Dao	12	B	1							
31 Dec	S13E03	224	120	8	Dao	10	B								
01 Jan	S14W11	225	10	7	Bxo	8	B								
02 Jan	S12W22	222	10	7	Bxo	4	B								
03 Jan	S14W37	225	10	1	Bxo	2	B				1				
04 Jan	S15W51	226	30	5	Dao	5	B								
05 Jan	S15W61	223	70	4	Dao	3	B	1			1				
06 Jan	S15W75	223	70	4	Hsx	3	A								
07 Jan	S12W86	220	80	3	Hsx	2	A	1							
								6	0	0	2	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 224

			Region 3536												
30 Dec	N05E90	152	plage					1							
31 Dec	N05E75	152	80	3	Hax	2	A	7	1	1				1	
01 Jan	N06E63	151	140	13	Eai	5	BD	6	2		4	1			
02 Jan	N05E49	151	240	13	Eai	11	BG	5	1		5	1			
03 Jan	N06E37	151	250	11	Eko	10	BG	6			3				
04 Jan	N06E24	151	130	9	Dao	8	BG	2	2		1		1		
05 Jan	N06E11	150	100	7	Dai	11	BG	2			2				
06 Jan	N05W05	153	130	12	Eai	24	BG	4							
07 Jan	N05W20	154	100	11	Eai	18	BG	10			5	2			
08 Jan	N05W31	152	120	12	Eai	13	BG								
09 Jan	N06W42	151	170	11	Eao	13	BG	2							
10 Jan	N06W57	153	60	8	Dao	4	B	1							
11 Jan	N07W72	155	10	1	Axx	1	A								
								46	6	1	20	4	1	1	0

Died on Disk.
Absolute heliographic longitude: 153

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 3537													
01 Jan	N19E64	150	plage					1							
02 Jan	N18E48	151	40	5	Cao	2	B	3							
03 Jan	N18E34	154	60	1	Cao	6	B	1							
04 Jan	N18E21	154	40	6	Dao	3	BG				1				
05 Jan	N18E03	159	50	2	Hsx	1	A								
06 Jan	N18W11	159	50	2	Cao	3	B								
07 Jan	N18W23	158	60	2	Hax	2	A								
08 Jan	N18W35	156	30	2	Hax	1	A								
09 Jan	N18W47	156	30	1	Hax	1	A								
10 Jan	N18W61	157	30	1	Hax	1	A								
11 Jan	N18W66	158	plage												
12 Jan	N18W80	149	plage					1							
								6	0	0	1	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 159

		Region 3538													
03 Jan	N21E11	177	30	3	Dao	5	B	3							
04 Jan	N21W02	177	30	5	Dri	8	BG	2			1				
05 Jan	N21W14	175	70	6	Dai	8	B								
06 Jan	N21W28	176	70	6	Dai	8	G	9			9	1			
07 Jan	N25W42	177	30	6	Cri	10	B	3			1				
08 Jan	N25W54	175	40	9	Cai	11	B	6			1				
09 Jan	N20W67	176	80	7	Cai	10	B	6			4				
10 Jan	N20W81	177	200	7	Cao	10	B	5	1		2				
								34	1	0	18	1	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 177

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 3539												
05 Jan	N10E25	136	10	1	Axx	2	A								
06 Jan	N11E14	134	60	5	Dsi	9	BG								
07 Jan	N11W01	135	30	5	Dri	7	BG				1				
08 Jan	N11W12	133	40	6	Cao	5	B	1					1		
09 Jan	N10W27	136	60	5	Dai	8	B								
10 Jan	N10W41	137	220	7	Dao	9	B								
11 Jan	N10W56	139	230	8	Dai	13	B	7	1		6				
12 Jan	N10W69	138	130	6	Dao	8	B	4			2				
13 Jan	N13W82	138	110	3	Cao	3	B								
14 Jan	N13W96	139	110	3	Cao	3	B	1							
								13	1	0	9	0	1	0	0

Still on Disk.
Absolute heliographic longitude: 135

			Region 3540												
04 Jan	S18E81	94	plage					1							
05 Jan	S18E67	94	100	9	Dao	9	B	3							
06 Jan	S18E53	95	350	9	Dki	12	BG	2							
07 Jan	S17E47	92	310	11	Eki	17	BG	1			1				
08 Jan	S17E31	90	290	10	Dki	15	BG	1			1				
09 Jan	S18E18	91	240	9	Cao	14	B				1				
10 Jan	S18E04	92	240	9	Cao	14	B				1				
11 Jan	S18W10	93	150	8	Cao	12	B	1			2				
12 Jan	S17W22	91	60	7	Cao	8	B				1				
13 Jan	S18W37	93	80	8	Cai	13	B								
14 Jan	S19W51	94	110	10	Dai	16	BG								
								9	0	0	7	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 92

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 3541												
05 Jan	S21E65	96	10	2	Hax	1	A								
06 Jan	S21E51	97	30	2	Cao	4	B								
07 Jan	S20E43	94	60	2	Cao	3	B								
08 Jan	S20E29	92	50	3	Dai	3	B								
09 Jan	S21E17	92	80	6	Dai	5	B	2							
10 Jan	S23E07	89	60	13	Eai	24	BG								
11 Jan	S22W04	87	100	12	Esi	15	BG								
12 Jan	S22W22	91	50	9	Dai	12	BG	1			1				
13 Jan	S22W33	89	70	6	Dao	4	BD	1			4				
14 Jan	S22W48	91	50	5	Cso	4	B	5			2	1			
								9	0	0	7	1	0	0	0

Still on Disk.
Absolute heliographic longitude: 87

			Region 3542												
05 Jan	N19E12	150	60	5	Dao	6	B								
06 Jan	N19W02	150	60	5	Cao	6	B								
07 Jan	N16W15	150	50	4	Cao	3	B								
08 Jan	N19W29	150	20	2	Hax	1	A	2			1				
09 Jan	N18W43	152	10	1	Axx	1	A								
10 Jan	N18W57	153	plage												
11 Jan	N18W71	154	plage												
12 Jan	N18W85	154	plage												
								2	0	0	1	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 150

			Region 3543												
07 Jan	S05W21	155	50	7	Dai	8	B								
08 Jan	S05W34	155	80	6	Dai	12	B				1				
09 Jan	S06W48	157	110	8	Dso	8	B								
10 Jan	S06W63	159	110	8	Cso	8	B								
11 Jan	S06W78	161	50	9	Cso	4	B								
12 Jan	S05W91	160	plage												
								0	0	0	1	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 155

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 3544												
07 Jan	N19E60	75	30	1	Hax	1	A								
08 Jan	N19E47	74	30	1	Hax	1	A								
09 Jan	N18E32	77	20	1	Hsx	1	A								
10 Jan	N18E18	78	20	1	Hsx	1	A								
11 Jan	N18E04	79	10	1	Axx	1	A								
12 Jan	N18W11	80	10	1	Axx	1	A								
13 Jan	N18W24	80	10	1	Axx	1	A								
14 Jan	N18W38	81	plage												
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 79

			Region 3545												
09 Jan	S06E67	42	190	3	Hax	1	A								
10 Jan	S06E52	44	190	3	Hax	1	A								
11 Jan	S06E40	43	150	3	Hsx	1	A								
12 Jan	S07E30	39	160	7	Cho	4	B								
13 Jan	S06E17	39	250	6	Cho	3	B				1				
14 Jan	S06E02	41	250	6	Cho	4	B	2							
								2	0	0	1	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 41

			Region 3546												
09 Jan	S24E50	58	70	3	Cao	11	B								
10 Jan	S24E36	60	70	3	Cai	11	B	1							
11 Jan	S24E22	61	70	7	Dai	11	B	1			2				
12 Jan	S24E09	60	60	7	Dai	11	B								
13 Jan	S24W03	59	40	8	Cro	9	B								
14 Jan	S24W17	60	10	8	Bxi	9	B								
								2	0	0	2	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 59

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 3547												
11 Jan	N19E19	64	40	5	Dso	3	B								
12 Jan	N19E05	64	50	7	Cso	5	B		1		1				
13 Jan	N18W09	65	30	8	Cao	6	B								
14 Jan	N18W23	66	10	8	Bxo	2	B								
								0	1	0	1	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 64

			Region 3548												
12 Jan	N12E41	28	90	4	Dso	5	B	2							
13 Jan	N12E28	28	70	4	Dao	5	B								
14 Jan	N12E14	29	40	4	Cao	5	B								
								2	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 29

			Region 3549												
12 Jan	S20E62	7	140	5	Dso	3	B								
13 Jan	S21E50	6	180	5	Dsi	7	B								
14 Jan	S21E36	7	250	6	Chi	7	B	2			1				
								2	0	0	1	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 7

			Region 3550												
12 Jan	S16E21	48	10	6	Bxo	3	B								
13 Jan	S18E09	47	10	1	Axx	1	A								
14 Jan	S18W03	46	10	2	Axx	3	A								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 46

			Region 3551												
12 Jan	N25E50	19	10	7	Bxo	3	B								
13 Jan	N26E39	17	10	3	Bxo	3	B								
14 Jan	N26E25	18	10	3	Bxo	3	B								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 18

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 3552												
12 Jan	S23W14	83	30	7	Cso	5	B								
13 Jan	S22W25	81	10	6	Cao	5	B								
14 Jan	S22W39	82	10	3	Axx	4	A								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 83

			Region 3553												
13 Jan	N05E68	348	120	1	Hsx	1	A								
14 Jan	N05E54	349	80	2	Hsx	3	A								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 349

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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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