Space Weather Highlights
20 January - 26 January 2025

SWPC PRF 2578
27 January 2025

Solar activity ranged from low to moderate levels (R1-Minor). Moderate levels were observed on 21 Jan from Region 3967 (S14, L=148, class/area Eai/110 on 21 Jan) with an M3.3/Sf observed at 21/1039 UTC. This flare also produced a Type II sweep with an estimated shock velocity of 565 km/s. Region 3961 (S09, L=181, class/area Fkc/800 on 20 Jan) produced an M1.3/1f at 22/1108 UTC with a Type II sweep with an estimated shock velocity of 561 km/s. This region also produced an M2.7/1f flare at 24/2104 UTC. All other active regions were either quiet or contributed only C-class events. Potential Earth-directed CMEs were observed on 21 and 22 Jan.

No proton events were observed at geosynchronous orbits.

The greater than 2 MeV electron flux at geosynchronous orbit reached high levels on 20, 22 anmd 23 Jan. Normal to moderate levels were observed on 21 and 24-26 Jan.

Geomagnetic field activity was at quiet to active levels. Isolated active period were reached on 20 Jan with unsettled levels observed on 20-24 Jan. Quiet levels were observed on 25-26 Jan. All elevations in geomagnetic activity were attributed to influence from multiple, negative polarity CH HSSs.

Space Weather Outlook
27 January - 22 February 2025

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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
20 January	230	277	2130	C1.9	6	0	0	4	0	0	0	0
21 January	225	251	1860	C1.6	4	1	0	6	0	0	0	0
22 January	214	158	1430	C1.6	5	1	0	0	1	0	0	0
23 January	215	169	1400	C1.8	10	0	0	7	1	0	0	0
24 January	205	131	940	C2.3	5	1	0	9	1	0	0	0
25 January	182	131	810	C1.6	11	0	0	2	0	0	0	0
26 January	171	140	690	C1.5	7	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
20 January	3.8e+05	1.5e+04	3.1e+07
21 January	1.7e+05	1.5e+04	3.3e+07
22 January	9.3e+04	1.5e+04	4.9e+07
23 January	2.0e+05	1.7e+04	5.5e+07
24 January	8.9e+04	1.6e+04	2.8e+07
25 January	8.6e+04	1.6e+04	3.1e+07
26 January	1.1e+05	1.6e+04	4.0e+07

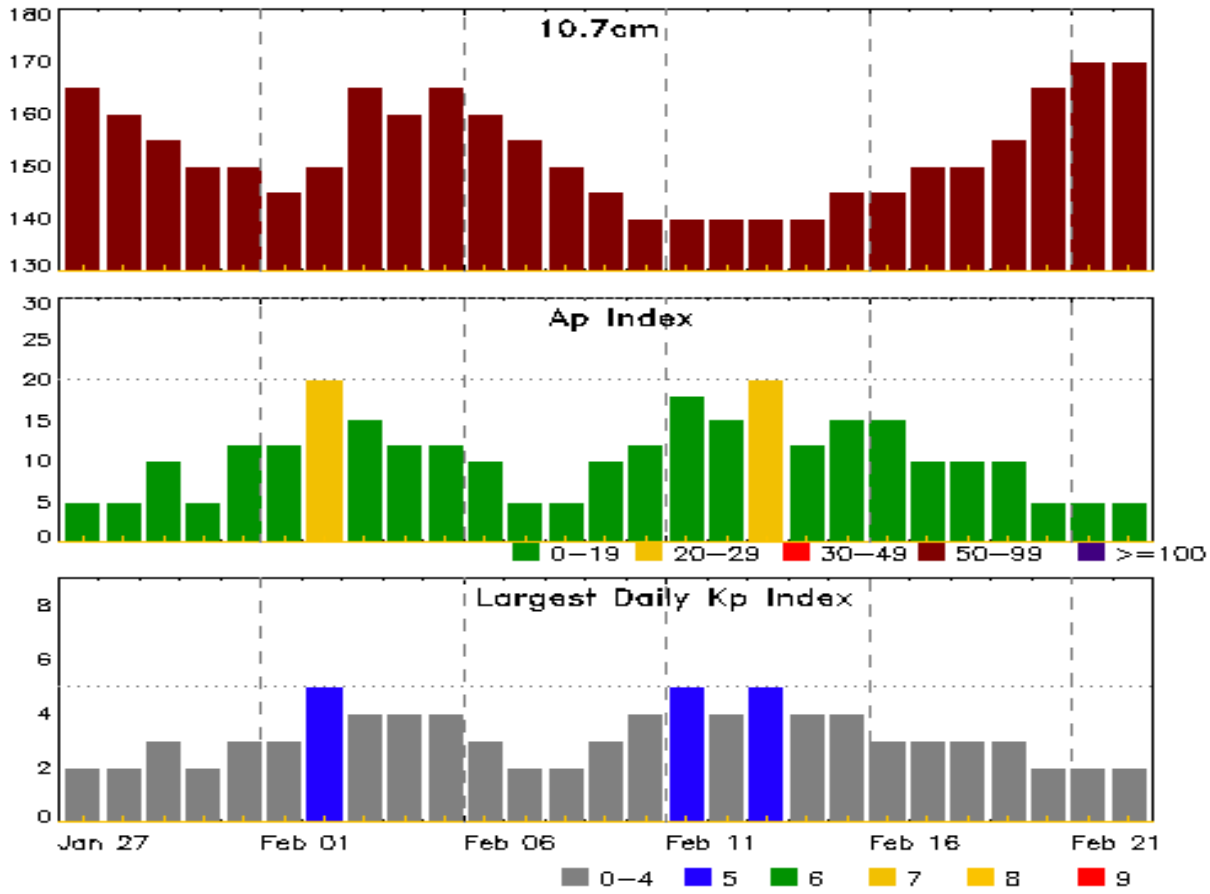
Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
20 January	13	3-2-3-2-4-3-2-2	38	3-2-3-5-7-5-4-2	20	4-3-3-3-4-3-3-3
21 January	6	1-2-1-1-2-2-2-2	13	2-2-1-4-3-4-2-2	11	2-3-2-2-1-3-3-3
22 January	7	3-1-2-2-2-1-1-2	16	3-2-4-5-3-2-1-1	10	3-2-3-2-2-1-1-3
23 January	7	2-1-0-2-2-3-2-2	9	2-1-1-2-3-3-3-2	10	3-1-1-1-2-3-3-2
24 January	6	1-1-2-1-2-2-2-2	5	1-1-3-2-2-1-0-1	7	1-2-3-1-2-1-2-2
25 January	2	0-0-0-1-2-1-1-1	1	0-0-0-1-0-1-0-0	3	1-0-1-1-1-1-1-1
26 January	2	0-1-0-0-1-2-1-1	0	0-0-0-0-0-0-0-0	3	1-1-0-1-1-1-1-1

Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
20 Jan 1243	EXTENDED WARNING: Geomagnetic K = 4	19/0709 - 20/2359
20 Jan 1331	WARNING: Geomagnetic K = 5	20/1332 - 2100
20 Jan 1358	ALERT: Electron 2MeV Integral Flux >= 1000pfu	20/1340
20 Jan 2312	EXTENDED WARNING: Geomagnetic K = 4	19/0709 - 21/1200
21 Jan 1101	ALERT: Type II Radio Emission	21/1027
22 Jan 0130	WARNING: Geomagnetic K = 4	22/0130 - 0600
22 Jan 1150	ALERT: Type II Radio Emission	22/1058
22 Jan 1635	ALERT: Electron 2MeV Integral Flux >= 1000pfu	22/1535
22 Jan 2208	WATCH: Geomagnetic Storm Category G1 predicted	
23 Jan 1336	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	22/1535
23 Jan 1742	WARNING: Geomagnetic K = 4	23/1742 - 2100
24 Jan 1704	ALERT: Type II Radio Emission	24/1622

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
27 Jan	165	5	2	10 Feb	140	12	4
28	160	5	2	11	140	18	5
29	155	10	3	12	140	15	4
30	150	5	2	13	140	20	5
31	150	12	3	14	140	12	4
01 Feb	145	12	3	15	145	15	4
02	150	20	5	16	145	15	3
03	165	15	4	17	150	10	3
04	160	12	4	18	150	10	3
05	165	12	4	19	155	10	3
06	160	10	3	20	165	5	2
07	155	5	2	21	170	5	2
08	150	5	2	22	170	5	2
09	145	10	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
21 Jan	1008	1039	1100	M3.3	0.065	SF	S19	E23	3967			2	
22 Jan	1044	1108	1135	M1.3	0.031	1F	S12	W12	3961	250		2	
24 Jan	2048	2104	2117	M2.7	0.028	1F	S04	W67	3961	200			

Flare List

	Time				Optical		
Date	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
20 Jan	0018	0026	0032	C4.3			3959
20 Jan	0829	0837	0842	C5.0			3968
20 Jan	1114	1119	1123	C4.3			3968
20 Jan	1206	1213	1218	C2.7			3968
20 Jan	1307	1315	1319	C6.3			3968
20 Jan	1623	1627	1633	C2.8			3968
20 Jan	1907	1909	1913		SF	S18W79	3968
20 Jan	1943	1943	1947		SF	S17W82	3968
20 Jan	2108	2109	2114		SF	S16W82	3968
20 Jan	2229	2229	2242		SF	S07W09	3961
21 Jan	0035	0041	0046	C2.2			3968
21 Jan	0223	0226	0230	C3.6			3968
21 Jan	0351	0358	0403	C2.9			3968
21 Jan	0518	0520	0524	C2.6			3965
21 Jan	1008	1039	1100	M3.3	SF	S19E23	3967
21 Jan	1608	1612	1617		SF	N16W38	3959
21 Jan	1618	1618	1622		SF	S11W20	3961
21 Jan	1627	1627	1633		SF	S06W18	3961
21 Jan	1712	1712	1714		SF	N16W39	3959
21 Jan	1736	1737	1740		SF	S08W25	3961
22 Jan	0600	0634	0640	C7.2			3961
22 Jan	1044	1108	1135	M1.3	1F	S12W12	3961
22 Jan	1322	1331	1345	C3.9			3961
22 Jan	1439	1451	1505	C4.3			3961
22 Jan	1924	1932	1939	C4.3			
22 Jan	2041	2049	2058	C2.7			3959
23 Jan	0115	0121	0125	C4.2			3972
23 Jan	0156	0203	0222	C9.1			3961

Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
23 Jan	0832	0841	0849	C3.4			3962
23 Jan	0946	0957	1002	C3.3	SF	N16W27	3962
23 Jan	B1219	U1225	A1251	C4.5	1N	S08E12	3969
23 Jan	1227	1234	1241	C4.5			3969
23 Jan	1338	1342	1346	C3.7			3965
23 Jan	1430	1436	1442	C3.7			3961
23 Jan	1609	1610	1611	C8.0	SF	S09W50	3961
23 Jan	1742	1742	1744		SF	S08W52	3961
23 Jan	1749	1751	1754		SF	S08W52	3961
23 Jan	1843	1848	1852		SF	S10W52	3961
23 Jan	1936	1939	1944		SF	S09W53	3961
23 Jan	2015	2022	2026	C3.7	SF	S14W15	3967
24 Jan	0402	0410	0419	C4.4	SF	N14W36	3971
24 Jan	0836	0836	0838		SF	S09W56	3961
24 Jan	0852	0853	0854		SF	S09W56	3961
24 Jan	1118	1132	1143	C5.8			3961
24 Jan	1135	U1136	1141		SF	S21W11	3961
24 Jan	1143	1221	1250	C9.8			
24 Jan	1349	1350	1402		SF	S08W05	3969
24 Jan	1400	1401	1419		SF	S05W58	3961
24 Jan	1611	1620	1626	C8.8	SF	S15W23	3967
24 Jan	1719	1724	1728	C5.1	SF	S07W68	3961
24 Jan	1932	1932	1934		SF	S10W66	3961
24 Jan	2048	2104	2117	M2.7	1F	S04W67	3961
24 Jan	2145	2148	2157		SF	S06W63	3961
25 Jan	0018	0022	0026	C6.6			3961
25 Jan	0252	0300	0315	C3.7			3961
25 Jan	0316	0323	0328	C4.6			3961
25 Jan	0341	0347	0351	C3.4			3959
25 Jan	0723	0733	0740	C5.8			3961
25 Jan	1001	1007	1015	C2.5			3971
25 Jan	1541	1548	1552	C2.4			3971
25 Jan	1716	1727	1733	C5.4			3961
25 Jan	1811	1824	1844	C4.0			3961
25 Jan	2115	2130	2140	C4.3	SF	S14W37	3967
25 Jan	2221	2229	2233	C2.4	SF	N19W66	3962
26 Jan	0646	0701	0719	C2.3			
26 Jan	0719	0727	0731	C2.1			3961

Flare List

	Time			Optical			
Date	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
26 Jan	1124	1130	1135	C3.1			3971
26 Jan	1451	1459	1501	C2.5			
26 Jan	1501	1508	1513	C2.6			
26 Jan	1535	1546	1552	C4.5			3961
26 Jan	2041	2049	2059	C3.0			3971

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 3952													
04 Jan	N19W01	25	10	3	Bxo	2	B								
05 Jan	N18W15	26	10	4	Axx	3	A								
06 Jan	N19W26	24	10	1	Axx	1	A								
07 Jan	N19W41	26	10	1	Axx	1	A								
08 Jan	N19W57	28	10	1	Axx	1	A								
09 Jan	N19W70	28	plage												
10 Jan	N19W84	29	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 25

		Region 3958													
12 Jan	S06E49	230	5	1	Axx	1	A								
13 Jan	S06E35	231	plage												
14 Jan	S06E21	231	plage												
15 Jan	S06E07	232	plage												
16 Jan	S06W08	234	plage												
17 Jan	S06W23	236	plage												
18 Jan	S06W37	237	plage												
19 Jan	S06W51	238	plage												
20 Jan	S06W65	238	plage												
21 Jan	S06W79	239	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 232

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 3959												
12 Jan	N19E72	207	150	3	Hsx	1	A								
13 Jan	N18E61	205	360	5	Cho	3	B	1							
14 Jan	N18E47	205	400	7	Dko	5	BG	1							
15 Jan	N18E35	204	400	6	Dki	10	BGD								
16 Jan	N18E26	200	430	14	Dki	10	BGD	1			1				
17 Jan	N18E12	201	550	14	Eko	14	BG								
18 Jan	N19W01	201	560	13	Eko	10	B	3							
19 Jan	N18W18	205	500	6	Cko	8	B	2			1				
20 Jan	N18W31	204	460	7	Cko	12	B	1							
21 Jan	N18W45	205	420	6	Cko	6	B				2				
22 Jan	N18W59	206	400	6	Cko	4	B	1							
23 Jan	N18W72	206	340	5	Hkx	4	A								
24 Jan	N18W86	207	160	4	Hax	2	A								
								10	0	0	4	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 201

			Region 3961												
14 Jan	S09E70	181	180	6	Dao	3	B	2			4				
15 Jan	S09E58	181	220	13	Eac	15	BG	2							
16 Jan	S09E45	181	340	11	Eki	15	BG				2				
17 Jan	S09E32	181	600	11	Eki	25	BG	5	1		2				
18 Jan	S09E19	181	720	12	Ekc	22	BGD	3			6				
19 Jan	S09E06	181	780	13	Ekc	22	BGD	3			1				
20 Jan	S09W08	181	800	16	Fkc	70	BGD				1				
21 Jan	S10W21	181	780	15	Ekc	50	BGD				3				
22 Jan	S10W35	182	700	15	Ekc	32	BG	3	1			1			
23 Jan	S10W48	182	660	13	Ekc	27	BG	3			5				
24 Jan	S10W62	183	460	13	Eki	15	BG	2	1		6	1			
25 Jan	S10W76	184	460	13	Eki	15	BG	6							
26 Jan	S10W90	184	320	11	Eki	12	BG	2							
								31	3	0	30	2	0	0	0

Still on Disk.
Absolute heliographic longitude: 181

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 3962												
14 Jan	N17E82	170	40	3	Hsx	1	A	1							
15 Jan	N17E68	171	80	11	Eai	6	BGD	2							
16 Jan	N17E54	172	120	10	Dso	4	B								
17 Jan	N17E41	172	120	9	Dso	6	B								
18 Jan	N18E28	172	100	9	Cso	6	B								
19 Jan	N18E14	173	110	8	Cso	5	B								
20 Jan	N18E02	171	120	10	Csi	20	BG								
21 Jan	N18W12	172	120	10	Cao	13	BG								
22 Jan	N18W29	176	100	3	Cao	4	B								
23 Jan	N17W41	175	60	2	Hax	3	A	2			1				
24 Jan	N18W54	175	30	1	Hax	2	A								
25 Jan	N18W68	176	30	1	Hax	2	A	1			1				
26 Jan	N18W82	176	30	1	Hax	2	A								
								6	0	0	2	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 171

			Region 3963												
15 Jan	N24E06	233	20	5	Cao	5	B	1			1				
16 Jan	N24W08	234	plage					1							
17 Jan	N24W22	235	plage												
18 Jan	N24W36	236	plage												
19 Jan	N24W50	237	plage												
20 Jan	N24W64	237	plage												
21 Jan	N24W78	238	plage												
								2	0	0	1	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 233

			Region 3964												
16 Jan	N07W22	248	180	7	Dai	14	B	4			2				
17 Jan	N06W34	247	475	8	Dki	17	BG	13	8		9	1			
18 Jan	N06W47	247	450	9	Dki	14	BGD	5	2		1	2			
19 Jan	N06W62	249	400	12	Eki	12	BG	5	1						
20 Jan	N06W75	248	400	12	Ekc	15	BGD								
21 Jan	N06W88	248	260	10	Dki	12	BG								
								27	11	0	12	3	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 248

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 3965												
16 Jan	N15E67	159	90	3	Hsx	1	A	1							
17 Jan	N15E53	160	100	3	Hsx	1	A								
18 Jan	N14E39	161	140	3	Cso	3	B								
19 Jan	N14E30	157	140	3	Cso	3	B	1							
20 Jan	N14E14	159	140	5	Cao	6	B								
21 Jan	N14W00	160	100	5	Cao	15	B	1							
22 Jan	N14W14	161	80	5	Cao	6	B								
23 Jan	N14W27	161	60	3	Cao	3	B	1							
24 Jan	N15W42	163	30	4	Hax	3	A								
25 Jan	N15W56	164	30	4	Cao	3	B								
26 Jan	N15W70	164	10	1	Axx	2	A								
								4	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 160

			Region 3966												
17 Jan	N04E08	205	10	3	Bxo	2	B								
18 Jan	N04W06	206	plage												
19 Jan	N04W20	207	plage												
20 Jan	N04W34	207	plage												
21 Jan	N04W48	208	plage												
22 Jan	N04W63	210	plage												
23 Jan	N04W77	211	plage												
								0	0	0	0	0	0	0	0

Died on Disk.
Absolute heliographic longitude: 206

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 3967												
17 Jan	S18E72	141	30	2	Hax	2	A								
18 Jan	S17E57	143	60	3	Dao	2	B								
19 Jan	S17E41	146	60	6	Dso	2	B								
20 Jan	S17E26	147	60	10	Cso	5	B								
21 Jan	S17E12	148	110	11	Eai	30	BG		1		1				
22 Jan	S16W02	149	40	8	Cri	10	B								
23 Jan	S15W15	149	50	9	Bxi	6	B	1			1				
24 Jan	S15W26	147	20	6	Cro	4	B	1			1				
25 Jan	S15W40	148	20	6	Cso	4	B	1			1				
26 Jan	S15W54	148	20	6	Dso	4	B								
								3	1	0	4	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 149

			Region 3968												
19 Jan	S19W71	258	20	5	Bxo	6	B	2			1				
20 Jan	S18W85	258	70	6	Cai	11	BD	5			3				
								7	0	0	4	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 258

			Region 3969												
19 Jan	S06E59	128	20	5	Bxo	5	B								
20 Jan	S06E45	128	40	8	Dri	25	BG								
21 Jan	S06E31	129	40	10	Dri	24	BG								
22 Jan	S06E17	130	60	10	Dri	12	B								
23 Jan	S06E04	130	80	10	Dri	14	B	2				1			
24 Jan	S06W10	131	30	10	Dro	6	B				1				
25 Jan	S06W25	133	30	10	Cao	6	B								
26 Jan	S06W40	134	30	10	Cao	6	B								
								2	0	0	1	1	0	0	0

Still on Disk.
Absolute heliographic longitude: 130

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 3970												
20 Jan	N16E21	152	10	4	Bxi	6	B								
21 Jan	N16E09	151	20	4	Bxi	9	B								
22 Jan	N16W04	151	10	4	Bxo	3	B								
23 Jan	N15W14	148	10	1	Axx	1	A								
24 Jan	N15W28	149	plage												
25 Jan	N15W42	150	plage												
26 Jan	N15W56	150	plage												
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 151

			Region 3971												
20 Jan	N12E03	170	30	3	Cri	7	B								
21 Jan	N11W13	173	10	2	Axx	2	A								
22 Jan	N11W27	174	plage												
23 Jan	N14W35	169	60	4	Dao	11	BG								
24 Jan	N13W49	170	170	6	Dai	13	BG	1			1				
25 Jan	N13W63	171	170	6	Dac	13	BG	2							
26 Jan	N13W77	171	170	6	Dai	13	BG	2							
								5	0	0	1	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 170

			Region 3972												
22 Jan	S18E06	141	40	7	Csi	7	B								
23 Jan	S19W07	141	80	6	Dso	10	B	1							
24 Jan	S19W21	142	40	7	Dao	6	B								
25 Jan	S19W35	143	40	7	Dao	6	B								
26 Jan	S19W49	143	20	7	Cao	6	B								
								1	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 141

			Region 3973												
25 Jan	N13W02	109	30	3	Dao	2	B								
26 Jan	N13W16	110	20	3	Cao	3	B								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 109

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 3974													
26 Jan	S18E72	22	70	2	Hax	2	A	0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 22

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

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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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