

Solar activity ranged from low to strong levels. Forty-five C-class, three M-class (R1-Minor) and one X-class (R3-Strong) activity was observed from various regions on the disk during the period. A majority of the activity was observed from Regions 4341 (S11, L=046, class/area Dkc/840 on 16 Jan), 4342 (N17, L=041, class/area Dso/180 on 16 Jan) and 4343 (S11, L=097, class/area Dki/310 on 16 Jan).

Region 4341 produced the following R1 (Minor) flare activity; an M1.6/1f at 14/2033 UTC, an M2.1/2b at 17/1029 UTC and an M1.1/2n at 17/2351 UTC. This region also produced an X1.9/3b long-duration event at 18/1809 UTC. Associated with this flare was a 693 km/s Type II sweep, a Type IV sweep, a 3,200 sfu Tenflare and a Castelli-U radio burst. An associated full-halo CME was first noted in GOES CCOR-1 imagery at about 18/1830 UTC. Additional coronagraph imagery will determine any Earth-directed component.

A 10 MeV at 10 pfu proton event at geosynchronous orbit (S1-Minor) was first observed at 18/2255 UTC. This event occurred in association with the X1.9 flare at 18/1830 UTC.

The greater than 2 MeV electron flux at geosynchronous orbit reached high levels on 12-18 Jan. A peak flux of 9,398 pfu was observed at 14/1645 UTC.

Geomagnetic field activity was at quiet to minor storm levels (G1-Minor) throughout the period. Quiet to active levels were detected on 12-13 Jan associated with waning CME influence and effects from a negative polarity CH HSS. Mostly quiet levels were observed on 14 Jan. Unsettled to minor storm (R1-Minor) levels were detected on 15 through midday on 17 Jan. Unsettled to active levels were observed on the later half of 17 Jan through 18 Jan due to positive polarity CH HSS.

Space Weather Outlook **19 January - 14 February 2026**

Solar activity is likely to remain at low levels, with a chance for R1-R2 (Minor-Moderate) and a slight chance for R3 (Strong) levels over the next forecast period, all due to multiple regions on the visible disk as well as regions expected to return.

10 MeV at 10 pfu proton events (S1-Minor) are expected at geosynchronous orbit on 19-20 Jan.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to reach high levels on 19-27 Jan and 12-14 Feb, all due to the anticipated influence of multiple, recurrent coronal holes. The remainder of the outlook period is likely to be at normal to moderate levels.

Geomagnetic field activity is likely to reach (G1-Minor) geomagnetic storm levels on 29 Jan and unsettled to active levels on 19-23, 27-28, 30-31 Jan, 04-11 and 13-14 Feb. All enhancements in activity are due to the anticipated influence of multiple, recurrent CH HSSs. The remainder of



the outlook period is expected 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
12 January	113	52	300	C1.0	2	0	0	1	0	0	0	0
13 January	117	49	290	B7.3	6	0	0	2	0	0	0	0
14 January	127	70	600	B8.2	7	1	0	3	1	0	0	0
15 January	139	123	890	B9.4	4	0	0	2	0	0	0	0
16 January	148	144	1650	B9.3	11	0	0	7	0	0	0	0
17 January	159	124	950	C1.3	13	2	0	7	0	1	0	0
18 January	148	140	750	C1.3	7	0	1	3	0	0	1	0

Daily Particle Data

Date	Proton Fluence (protons/cm ² -day -sr)		Electron Fluence (electrons/cm ² -day -sr)	
	>1 MeV	>10 MeV	>2MeV	
12 January	4.0e+05	1.7e+04	9.6e+07	
13 January	1.3e+05	1.7e+04	2.1e+08	
14 January	8.1e+05	1.8e+04	4.2e+08	
15 January	1.1e+06	1.7e+04	3.0e+08	
16 January	4.0e+06	1.5e+04	1.1e+08	
17 January	4.0e+06	1.5e+04	7.4e+07	
18 January	2.2e+06	1.5e+05	1.5e+08	

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
12 January	14	2-4-3-3-1-2-2-4	24	2-4-5-5-3-2-3-4	18	3-4-4-3-1-2-3-4
13 January	9	3-2-1-2-0-2-4-2	12	3-3-2-5-0-0-1-2	10	4-3-2-2-1-1-3-2
14 January	5	2-2-0-1-2-2-1-2	10	0-1-1-2-5-1-1-3	7	2-2-1-1-2-1-2-3
15 January	8	3-2-2-2-2-2-2-2	17	2-2-4-4-3-4-3-2	12	3-2-3-2-1-3-3-2
16 January	17	3-3-2-3-3-4-3-4	66	2-3-4-6-6-8-5-4	26	3-4-3-3-4-5-4-5
17 January	18	5-3-3-2-3-3-3-3	39	4-3-5-6-5-5-4-3	27	5-4-4-3-3-4-4-4
18 January	12	2-4-3-2-2-2-3-2	25	3-3-4-5-5-4-3-2	15	3-4-3-2-2-3-4-3



Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
12 Jan 0902	EXTENDED WARNING: Geomagnetic K = 4	10/0732 - 12/2359
12 Jan 1101	ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	12/1040
12 Jan 2245	WARNING: Geomagnetic K = 5	12/2245 - 13/0600
12 Jan 2256	WARNING: Geomagnetic K = 4	12/2245 - 13/0600
13 Jan 0459	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	12/1040
13 Jan 0555	EXTENDED WARNING: Geomagnetic K = 4	12/2245 - 13/1200
14 Jan 0459	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	12/1040
14 Jan 2314	WATCH: Geomagnetic Storm Category G1 predicted	
15 Jan 0459	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	12/1040
15 Jan 2055	WATCH: Geomagnetic Storm Category G1 predicted	
16 Jan 0254	WARNING: Geomagnetic K = 4	16/0254 - 2359
16 Jan 0515	ALERT: Geomagnetic K = 4	
16 Jan 1227	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	12/1040
16 Jan 1523	WARNING: Geomagnetic K = 5	16/1525 - 2100
16 Jan 1626	ALERT: Geomagnetic K = 5	
16 Jan 2041	EXTENDED WARNING: Geomagnetic K = 4	16/0254 - 17/0600
16 Jan 2041	EXTENDED WARNING: Geomagnetic K = 5	16/1525 - 17/0300
16 Jan 2257	ALERT: Geomagnetic K = 5	
17 Jan 0207	EXTENDED WARNING: Geomagnetic K = 4	16/0254 - 17/2359
17 Jan 0207	EXTENDED WARNING: Geomagnetic K = 5	16/1525 - 17/1800
17 Jan 0209	ALERT: Geomagnetic K = 5	
17 Jan 1343	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	12/1040
17 Jan 2236	EXTENDED WARNING: Geomagnetic K = 4	16/0254 - 18/2359
18 Jan 0602	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	12/1040
18 Jan 1752	ALERT: X-ray Flux exceeded M5	18/1752

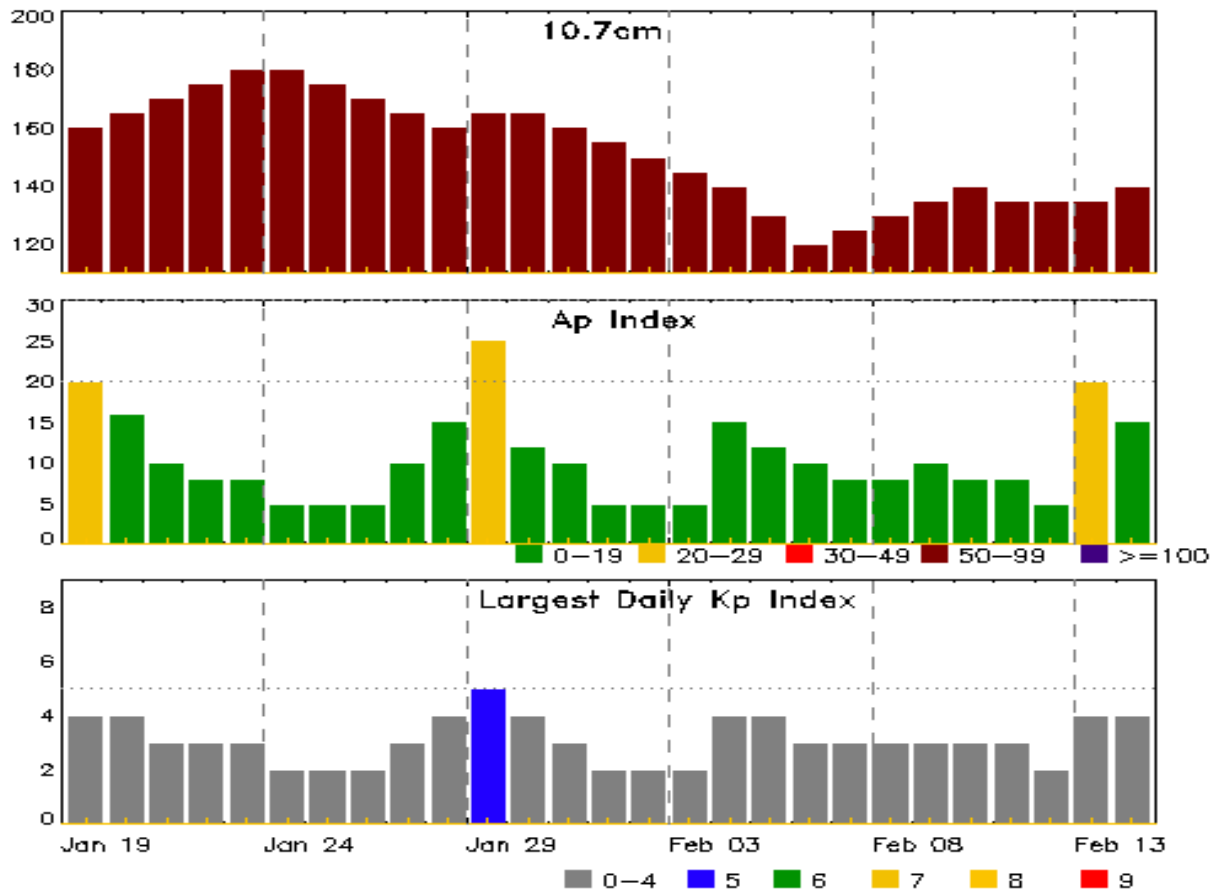


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
18 Jan 1813	ALERT: Type IV Radio Emission	18/1748
18 Jan 1847	ALERT: Type II Radio Emission	18/1759
18 Jan 1900	SUMMARY: X-ray Event exceeded X1	18/1727 - 1851
18 Jan 1955	SUMMARY: 10cm Radio Burst	18/1739 - 1944
18 Jan 2130	WARNING: Proton 10MeV Integral Flux > 10pfu	18/2130 - 19/1200
18 Jan 2311	ALERT: Proton Event 10MeV Integral Flux >= 10pfu	18/2255
18 Jan 2354	EXTENDED WARNING: Geomagnetic K = 4	16/0254 - 19/2359



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
19 Jan	160	20	4	02 Feb	150	5	2
20	165	16	4	03	145	5	2
21	170	10	3	04	140	15	4
22	175	8	3	05	130	12	4
23	180	8	3	06	120	10	3
24	180	5	2	07	125	8	3
25	175	5	2	08	130	8	3
26	170	5	2	09	135	10	3
27	165	10	3	10	140	8	3
28	160	15	4	11	135	8	3
29	165	25	5	12	135	5	2
30	165	12	4	13	135	20	4
31	160	10	3	14	140	15	4
01 Feb	155	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		Intensity	
									245	2695	II	IV
14 Jan	2010	2033	2052	M1.6	0.023	1F	S14E73	4341				
17 Jan	1019	1029	1032	M2.1	0.007	2B	S07E35	4341				
17 Jan	2346	2351	2354	M1.1	0.005			4341				
18 Jan	1727	1809	1851	X1.9	0.580	3B	S11E20	4341	3200	3200	2	1

Flare List

Date	Time			X-ray Class	Optical		
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	Rgn #
12 Jan	1003	1015	1022	C5.2	SF	S10W20	4336
12 Jan	1242	1247	1254	C1.4			
13 Jan	0730	0733	0738	B9.2			
13 Jan	0913	0954	1015	C1.8			
13 Jan	1202	1213	1235	C1.5	SF	S11W35	4336
13 Jan	1609	1619	1622	C1.3	SF	S08W36	4336
13 Jan	1622	1648	1657	C2.4			4341
13 Jan	1854	1903	1914	C1.4			4341
14 Jan	0334	0350	0354	C9.6			4342
14 Jan	0409	0416	0424	C2.5			4342
14 Jan	0625	0628	0630	C1.2			4341
14 Jan	0945	0953	0957	C1.8			4342
14 Jan	1236	1237	1240		SF	N13E11	4340
14 Jan	1607	1617	1625	C3.6			4342
14 Jan	2010	2033	2052	M1.6	1F	S14E73	4341
14 Jan	2321	2326	2330	C1.9	SF	N18E86	4342
14 Jan	2333	2356	0027	C3.8	SF	N14E05	4340
15 Jan	0620	0636	0700	C9.7	SF	S13E66	4341
15 Jan	1245	1252	1256	C2.3	SF	N14W00	4340
15 Jan	1308	1314	1316	C1.6			4341
15 Jan	1847	1853	1855	C1.4			4342
16 Jan	0259	0303	0308	C1.5			4344
16 Jan	0847	0909	0922	C6.6	SF	S18E59	4345
16 Jan	1136	1141	1149	C1.3			4343
16 Jan	1231	1240	1246	C2.0			4343
16 Jan	1715	1721	1724	C1.4			4341
16 Jan	1859	1907	1909		SF	S08E44	4341



Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
16 Jan	1904	1915	1922	C4.0	SF	S10W04	4343
16 Jan	1918	1921	1924		SF	S09E45	4341
16 Jan	2014	2022	2026	C1.5	SF	S09E44	4341
16 Jan	2036	2043	2047	C1.9			4343
16 Jan	2100	2106	2114		SF	S12E48	4341
16 Jan	2258	2310	2315	C5.2	SF	S10W07	4343
16 Jan	2325	2330	2336	C2.8			4342
16 Jan	2354	0001	0007	C1.7			4343
17 Jan	0049	0054	0058	C3.1			4343
17 Jan	0220	0226	0229	C3.0			4343
17 Jan	0229	0237	0242	C4.4	SF	S07E40	4341
17 Jan	0242	0246	0248	C4.7			4341
17 Jan	0302	0307	0313	C2.4			4341
17 Jan	0357	0404	0408	C1.9			4342
17 Jan	0413	0420	0425	C2.0			4341
17 Jan	0603	0609	0614	C2.8			4342
17 Jan	0729	0734	0743	C2.2			4343
17 Jan	0743	0748	0750	C2.0			4343
17 Jan	1019	1029	1032	M2.1	2B	S07E35	4341
17 Jan	1355	1400	1405		SF	N17E45	4342
17 Jan	B1458	1509	1533	C5.6	SN	S07E32	4341
17 Jan	1804	1813	1822	C1.9			4342
17 Jan	1828	1831	1839		SF	S16E40	4345
17 Jan	1829	1829	1833		SF	S17E41	4341
17 Jan	2133	2134	2136		SF	S08E29	4341
17 Jan	2332	2342	2346	C8.4			4341
17 Jan	2338	2341	2357		SF	S10E27	4341
17 Jan	2346	2351	2354	M1.1			4341
18 Jan	0306	0311	0317	C1.5			4342
18 Jan	0341	0349	0353	C1.7			4342
18 Jan	0353	0408	0422	C2.7			
18 Jan	0601	0620	0632	C7.1	SF	S09E34	4341
18 Jan	1142	1148	1155	C2.2			
18 Jan	1359	1404	1410	C2.3			
18 Jan	1631	1637	1643	C2.5	SF	S06E17	4341
18 Jan	1727	1809	1851	X1.9	3B	S11E20	4341
18 Jan	2145	2146	2153		SF	N14E27	4342



Region Summary

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 4334															
02 Jan	S15E73	200	80	2	Hsx	1	A								
03 Jan	S15E59	201	100	2	Hsx	1	A								
04 Jan	S17E48	198	120	3	Hsx	2	A								
05 Jan	S15E34	199	110	3	Cso	3	B	1							
06 Jan	S15E20	200	120	3	Hax	3	A	6			1	1			
07 Jan	S16E07	200	150	5	Cai	12	BG	5			2				
08 Jan	S16W06	200	150	5	Dao	10	B	3			1				
09 Jan	S16W19	200	50	6	Cao	6	B								
10 Jan	S16W33	200	50	6	Dao	6	B								
11 Jan	S16W44	198	20	2	Cao	2	B								
12 Jan	S16W57	198	10	1	Hrx	1	A								
13 Jan	S16W70	198	10	1	Axx	1	A								
14 Jan	S16W84	199	plage												
								15	0	0	4	1	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 200

Region 4336															
04 Jan	S09E77	169	60	2	Hsx	1	A	1							
05 Jan	S09E66	167	140	13	Eso	3	B	2							
06 Jan	S10E55	165	290	14	Eki	10	BGD	2			1				
07 Jan	S10E41	166	300	13	Eki	12	BGD	2							
08 Jan	S10E28	166	420	14	Eki	12	BGD	3							
09 Jan	S10E15	166	430	14	Eko	18	BD	3							
10 Jan	S10E01	166	320	15	Eko	15	BG	2			4				
11 Jan	S10W12	166	300	14	Eko	20	BG	1			1				
12 Jan	S09W25	166	250	14	Eho	15	B	1			1				
13 Jan	S09W39	167	250	13	Eho	12	B	2			2				
14 Jan	S09W52	167	150	13	Cso	9	B								
15 Jan	S09W65	167	150	14	Cso	5	B								
16 Jan	S09W87	175	170	3	Hsx	1	A								
								19	0	0	9	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 166



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 4337															
07 Jan	N25W35	242	20	3	Cro	5	B	4							
08 Jan	N25W49	243	20	5	Dao	7	B	1							
09 Jan	N25W62	243	10	1	Bxo	1	B								
10 Jan	N25W74	241	10	1	Cro	1	B	2							
11 Jan	N28W85	239	30	3	Cao	2	B								
								7	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 242

Region 4338															
08 Jan	S05E34	160	10	3	Bxo	3	B								
09 Jan	S06E21	160	plage												
10 Jan	S06E06	161	plage												
11 Jan	S06W09	163	plage												
12 Jan	S06W24	165	plage												
13 Jan	S06W39	167	plage												
14 Jan	S06W54	169	plage												
15 Jan	S06W69	171	plage												
16 Jan	S06W84	172	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 161

Region 4339															
09 Jan	S14E05	176	10	3	Bxo	2	B								
10 Jan	S16W08	175	10	4	Bxo	3	B	1			1				
11 Jan	S13W23	177	10	2	Axx	2	A								
12 Jan	S13W37	178	plage												
13 Jan	S13W51	179	plage												
14 Jan	S13W65	180	plage												
15 Jan	S13W79	181	plage												
								1	0	0	1	0	0	0	0

Crossed West Limb.

Absolute heliographic longitude: 176



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 4340															
11 Jan	N15E45	109	30	4	Cao	8	B								
12 Jan	N13E31	110	40	5	Dao	6	B								
13 Jan	N14E17	111	30	7	Cso	6	B								
14 Jan	N14E05	110	50	6	Cao	6	B	1				2			
15 Jan	N14W08	110	60	6	Cao	6	B	1				1			
16 Jan	N24W21	109	50	5	Cao	10	B								
17 Jan	N14W36	111	plage												
18 Jan	N14W50	112	plage												
								2	0	0	3	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 110

<i>Region 4341</i>															
13 Jan	S09E81	47	plage					2							
14 Jan	S10E70	45	350	9	Dkc	12	BG	1	1		1				
15 Jan	S10E56	44	420	12	Ekc	12	BG	2			1				
16 Jan	S11E42	46	840	9	Dkc	16	BGD	2			4				
17 Jan	S11E30	45	500	9	Dkc	18	BG	6	2		5		1		
18 Jan	S11E17	45	360	7	Dkc	13	BGD	2		1	2			1	
								15	3	1	12	1	1	1	0

Still on Disk.

Absolute heliographic longitude: 45

<i>Region 4342</i>															
14 Jan	N17E76	39	50	7	Cao	3	B	5			1				
15 Jan	N17E62	41	100	2	Cso	4	B	1							
16 Jan	N17E47	41	180	4	Dso	2	B	1							
17 Jan	N17E35	40	100	3	Cso	6	B	3			1				
18 Jan	N16E22	40	80	4	Dac	11	B	2			1				
								12	0	0	3	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 40



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 4343

15 Jan	S10E05	97	100	7	Dai	8	BG								
16 Jan	S11W09	97	310	9	Dki	18	BG	6			2				
17 Jan	S10W22	97	240	10	Dai	20	BD	4							
18 Jan	S11W35	97	180	10	Dao	18	B								
								10	0	0	2	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 97

Region 4344

15 Jan	N19E51	51	10	1	Bxo	2	B								
16 Jan	N19E36	52	10	1	Axx	1	A	1							
17 Jan	N19E23	52	30	3	Cro	3	B								
18 Jan	N18E11	51	30	4	Dao	4	B								
								1	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 51

Region 4345

15 Jan	S17E65	37	30	5	Dro	5	B								
16 Jan	S17E49	38	20	3	Cao	4	B	1			1				
17 Jan	S16E37	38	10	5	Bxo	5	B				1				
18 Jan	S16E24	38	20	7	Cso	8	B								
								1	0	0	2	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 38

Region 4346

15 Jan	S15E76	26	20	1	Hrx	1	A								
16 Jan	S14E61	26	10	1	Hrx	1	A								
17 Jan	S13E48	27	10	1	Axx	1	A								
18 Jan	S14E34	28	0	1	Axx	1	A								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 28



Region Summary - continued

Date	Location		Sunspot Characteristics					Flares							
	Lat CMD	Lon	Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical			
			10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4

Region 4347

16 Jan	N11E70	18	60	2	Hsx	1	A								
17 Jan	N10E60	15	60	2	Hsx	1	A								
18 Jan	N10E47	15	60	1	Hsx	1	A								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 15

Region 4348

18 Jan	S19W02	64	20	3	Cao	4	B								
								0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 64



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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