

Solar activity reached moderate levels on 09, 11, 12, and 13 Feb and was at low levels on 10, 14, and 15 Feb. Region 4366 (N14, L=203, class/area Fkc/950 on 09 Feb) continued to be the most prolific spot group, producing five out of the six M-class flares during the period. The largest flare was an M2.8 flare that occurred at 09/0227 UTC, followed by an M1.2 at 10/0009 UTC, an M1.1 at 11/0044 UTC, an M1.4 at 11/1312 UTC, and finally an M1.4 at 12/0240 UTC. Region 4373 (N09, L=110, class/area Hax/140 on 10 Feb) was the only other region to contribute to the M-flare activity, adding an M1.0/Sf flare at 13/0858 UTC. There were 35 C-class flares, with the largest being a C9.2/Sf at 09/2302 UTC from Region 4374.

CME activity included a large filament (located near N15W25) that lifted off and disappeared from GONG H-alpha imagery at around 10/1910Z. Initial coronagraph imagery from LASCO C2 at 10/1948Z revealed the eruption likely coincided with a separate eruption from S22W80 (first visible in C2 at 10/1924Z). This event is thought to have passed near Earth late on 14 Feb, slightly enhancing the geomagnetic field. Additionally, a CME associated with the M1.0 on 13 Feb first became visible off the NW in LASCO C2 at 13/0924Z and first visible in STEREO COR2 imagery at 13/0938Z. This event likely arrived at Earth on 15 Feb, possibly embedded in the CH HSS.

No proton events were observed at geosynchronous orbit on 09-15 Feb.

The greater than 2 MeV electron flux at geosynchronous orbit was at high levels on 09, 10, 12, and 13 Feb, reaching a peak flux value of 1,764 pfu at 09/1500 UTC. Flux levels were at moderate levels on 11, 14, and 15 Feb.

Geomagnetic field activity was at quiet to unsettled levels on 09 and 12 Feb, reached active levels on 10, 11, 13, and 14 Feb, and reached minor storm levels on 15 Feb. The elevated levels starting on 09 Feb and lasting through 14 Feb were likely associated with negative polarity coronal hole (CH) high speed stream (HSS) influences combined with intermittent transient effects. The increase in activity on 15 Feb is thought to be the result of a co-rotating interaction region ahead of a positive polarity CH HSS, possibly mixed with glancing effects from the CME that left the Sun on 13 Feb.

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## **Space Weather Outlook**

### **16 February - 14 March 2026**

Solar activity is expected to continue at low levels, with a slight chance for M-class (R1-R2, Minor-Moderate) flares on 16-21 Feb. Activity is expected to increase to moderate levels with M-class (R1-R2, Minor-Moderate) flares expected and a chance for X-class (R3-Strong or greater) on 22 Feb through 07 Mar as Region 4366 returns to the visible disk. Activity should



then decrease to low levels, with a chance for M-class (R1-R2, Minor-Moderate) flares on 08-09 Mar as Region 4366 transits the western limb. Low levels, with a chance for M-class flares, are expected to return on 10-14 Mar as old Region 4366 rotates to the far side once again.

The greater than 10 MeV proton flux levels are likely to be below the S1 (Minor) level on 16-21 Feb and again on 08-14 Mar. There is a chance for the 10 MeV proton flux to reach S1-S2 (Minor-Moderate) storm levels from 22 Feb-07 Mar as old Region 4366 returns to the visible disk.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at high levels on 16 Feb through 03 Mar, 06-08 Mar, and 11-12 Mar as CH HSS influence sporadically continues. Moderate levels are likely on 04-05, 09-10, and 13-14 Mar, outside of CH HSS influence.

Geomagnetic field activity is expected to be at unsettled to active levels on 16-21 Feb, 24-25 Feb, 05-07 Mar, and 10 Mar due to recurrent negative polarity CH HSS effects. Active conditions are likely on 12 Mar following a solar sector boundary crossing, then again on 14 Mar with the onset of a positive polarity CH HSS. Barring the potential for CME activity, mostly quiet to unsettled levels are expected from 19-23 Feb, 26 Feb - 04 Mar, and 08, 09, 11, and 13 Mar.



### *Daily Solar Data*

Date	Radio Flux 10.7cm	Sun spot No.	Sunspot Area (10 <sup>-6</sup> hemi.)	X-ray Background Flux	Flares							
					X-ray			Optical				
					C	M	X	S	1	2	3	4
09 February	144	107	1490	C1.7	10	1	0	2	1	0	0	0
10 February	142	105	1385	C1.1	8	1	0	0	0	0	0	0
11 February	129	84	570	C1.1	10	2	0	5	0	0	0	0
12 February	129	82	480	B5.7	3	1	0	0	0	0	0	0
13 February	117	50	430	B4.4	0	1	0	1	0	0	0	0
14 February	117	60	430	B4.4	2	0	0	0	0	0	0	0
15 February	118	65	410	B3.7	2	0	0	1	0	0	0	0

### *Daily Particle Data*

Date	Proton Fluence (protons/cm <sup>2</sup> -day -sr)		Electron Fluence (electrons/cm <sup>2</sup> -day -sr)	
	>1 MeV	>10 MeV	>2MeV	
	09 February	1.0e+05	1.5e+04	6.9e+07
10 February	1.0e+06	1.5e+04	4.8e+07	
11 February	1.1e+06	1.5e+04	3.3e+07	
12 February	4.0e+05	1.5e+04	3.9e+07	
13 February	1.8e+06	1.5e+04	2.9e+07	
14 February	2.7e+06	1.5e+04	2.3e+07	
15 February	1.6e+06	1.5e+04	1.6e+07	

### *Daily Geomagnetic Data*

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	09 February	5	2-1-2-1-1-2-1-1	5	1-1-1-1-3-2-1-1	7
10 February	8	1-1-1-3-2-2-2-3	10	0-0-0-5-2-1-2-3	10	1-1-1-3-2-2-3-4
11 February	13	3-3-2-3-2-3-3-3	24	3-2-3-5-3-5-4-3	18	4-3-3-3-2-3-3-4
12 February	6	2-2-1-2-2-2-1-2	18	2-2-3-5-3-5-1-0	9	3-3-2-3-1-3-1-2
13 February	8	3-1-1-2-1-2-2-3	15	3-2-3-4-2-4-2-3	14	4-2-3-2-2-3-3-4
14 February	8	2-3-0-0-2-1-3-3	8	3-3-0-0-0-1-2-4	11	3-3-0-0-1-1-3-4
15 February	18	5-4-2-2-3-2-2-4	32	5-6-3-4-4-4-4-2	56	5-5-3-3-3-3-3-4

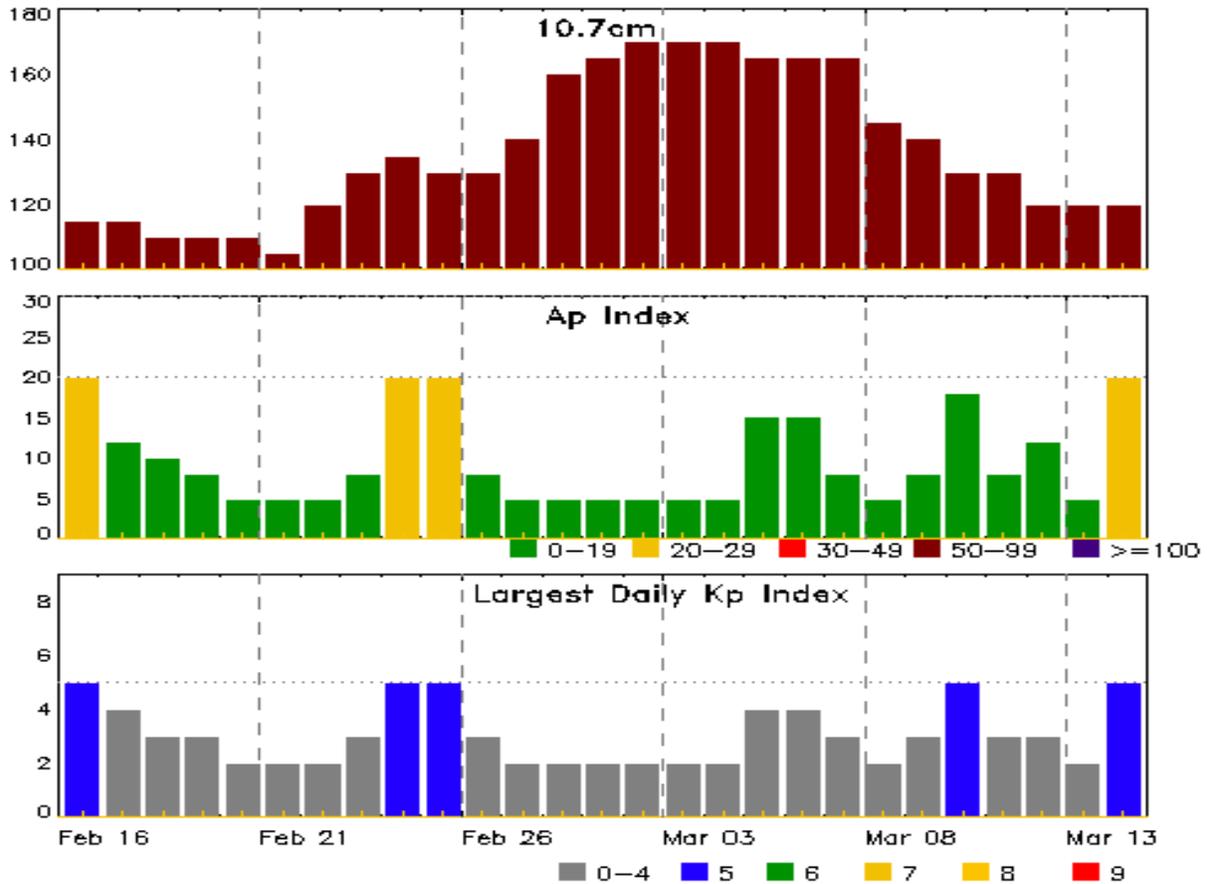


### *Alerts and Warnings Issued*

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
09 Feb 1211	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	07/1340
10 Feb 1212	CONTINUED ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	07/1340
10 Feb 2214	WARNING: Geomagnetic K = 4	10/2213 - 11/0600
10 Feb 2215	ALERT: Geomagnetic K = 4	
10 Feb 2330	WARNING: Geomagnetic K = 5	10/2330 - 11/0600
11 Feb 1937	WARNING: Geomagnetic K = 4	11/1936 - 12/0600
11 Feb 2221	ALERT: Geomagnetic K = 4	
12 Feb 1455	WATCH: Geomagnetic Storm Category G1 predicted	
12 Feb 1527	ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	12/1510
13 Feb 0211	WARNING: Geomagnetic K = 4	13/0210 - 1800
13 Feb 0213	ALERT: Geomagnetic K = 4	
13 Feb 1629	EXTENDED WARNING: Geomagnetic K = 4	13/0210 - 2359
13 Feb 1707	ALERT: Electron 2MeV Integral Flux $\geq$ 1000pfu	13/1650
13 Feb 1822	WATCH: Geomagnetic Storm Category G1 predicted	
14 Feb 1959	WARNING: Geomagnetic K = 4	14/2000 - 15/0300
14 Feb 2133	ALERT: Geomagnetic K = 4	
14 Feb 2135	EXTENDED WARNING: Geomagnetic K = 4	14/2000 - 15/0900
14 Feb 2135	WARNING: Geomagnetic K = 5	14/2135 - 15/0600
15 Feb 0213	ALERT: Geomagnetic K = 5	
15 Feb 0435	ALERT: Geomagnetic K = 5	
15 Feb 0514	EXTENDED WARNING: Geomagnetic K = 5	14/2135 - 15/2100
15 Feb 0514	EXTENDED WARNING: Geomagnetic K = 4	14/2000 - 15/2359
15 Feb 0514	WARNING: Geomagnetic K = 6	15/0515 - 1500
15 Feb 2338	EXTENDED WARNING: Geomagnetic K = 4	14/2000 - 16/0900



## 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
16 Feb	115	20	5	02 Mar	170	5	2
17	115	12	4	03	170	5	2
18	110	10	3	04	170	5	2
19	110	8	3	05	165	15	4
20	110	5	2	06	165	15	4
21	105	5	2	07	165	8	3
22	120	5	2	08	145	5	2
23	130	8	3	09	140	8	3
24	135	20	5	10	130	18	5
25	130	20	5	11	130	8	3
26	130	8	3	12	120	12	3
27	140	5	2	13	120	5	2
28	160	5	2	14	120	20	5
01 Mar	165	5	2				



### *Energetic Events*

Date	Time			X-ray	Optical Information			Peak		Sweep Freq		
	Begin	Max	Half	Class	Integ Flux	Imp/ Brtns	Location Lat CMD	Rgn #	Radio Flux		Intensity	
			Max						245	2695	II	IV
09 Feb	0214	0227	0248	M2.8	0.034				4366			
10 Feb	2356	0009	0020	M1.2	0.011				4366			
11 Feb	0029	0044	0050	M1.1	0.015				4366			
11 Feb	1247	1312	1325	M1.4	0.019				4366			
12 Feb	0229	0240	0250	M1.4	0.010				4366			
13 Feb	0828	0858	0920	M1.0	0.019	SF	N11W16		4373	150	120	

### *Flare List*

Date	Time			X-ray Class	Imp/ Brtns	Optical Location Lat CMD	Rgn #
	Begin	Max	End				
09 Feb	0009	0013	0015	C7.4			
09 Feb	0141	0148	0151	C2.9			4366
09 Feb	0151	0157	0200	C4.2			4366
09 Feb	0214	0227	0248	M2.8			4366
09 Feb	0806	0816	0832	C8.2			4366
09 Feb	0832	0836	0842	C6.6			4374
09 Feb	1334	1348	1355	C4.0			4366
09 Feb	1511	1520	1528	C2.7	SF	N15W65	4366
09 Feb	1801	1817	1822	C3.0			4374
09 Feb	2253	2302	2304	C9.2	SF	N10E75	4374
09 Feb	2347	2359	0017	C2.6	1F	S20W22	4371
10 Feb	0017	0034	0043	C2.6			4374
10 Feb	0043	0048	0052	C2.6			4366
10 Feb	0529	0548	0606	C2.3			4366
10 Feb	0606	0648	0654	C3.6			4371
10 Feb	1257	1306	1315	C2.5			4366
10 Feb	1347	1355	1405	C1.4			4366
10 Feb	1547	1555	1601	C1.5			4366
10 Feb	1827	1910	1946	C3.2			4374
10 Feb	2356	0009	0020	M1.2			4366
11 Feb	0029	0044	0050	M1.1			4366
11 Feb	0253	0301	0313	C2.6			4366
11 Feb	0331	0337	0340	C1.9			4366
11 Feb	0519	0527	0533	C2.0			4366
11 Feb	0719	0725	0727	C2.3			4366



## *Flare List*

Date	Time			X-ray Class	Optical		Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	
11 Feb	1008	1016	1022	C1.7			4366
11 Feb	1247	1312	1325	M1.4			4366
11 Feb	1614	1615	1623		SN	S24W40	4371
11 Feb	1717	1718	1734		SF	N10E05	4373
11 Feb	1753	1804	1814	C1.8	SF	N10E05	4373
11 Feb	1902	1907	1911	C2.0			4366
11 Feb	1943	1948	1952	C3.1			4366
11 Feb	2116	2122	2126	C1.3	SF	N10E47	4374
11 Feb	2152	2153	2304		SF	S25W42	4371
11 Feb	2323	2329	2335	C3.1			4366
12 Feb	0229	0240	0250	M1.4			4366
12 Feb	0725	0740	0756	C1.1			4366
12 Feb	1334	1341	1350	C1.0			4366
12 Feb	1620	1636	1657	C1.1			4366
13 Feb	0126	0131	0135	B7.7			4373
13 Feb	0742	0750	0805	B8.0			4373
13 Feb	0828	0858	0920	M1.0	SF	N11W16	4373
14 Feb	0215	0229	0243	B8.0			4377
14 Feb	0559	0610	0618	C2.0			4374
14 Feb	0658	0706	0726	B7.5			4377
14 Feb	0726	0731	0737	B6.9			4373
14 Feb	0916	0923	0930	B7.6			4377
14 Feb	1102	1113	1120	C6.0			4374
15 Feb	0328	0333	0335	B6.4			4377
15 Feb	0719	0727	0732	C1.3			
15 Feb	1609	1617	1624	B7.3	SF	N08W08	4374
15 Feb	2058	2106	2109	C1.8			4374



### Region Summary

Date	Location		Sunspot Characteristics					Flares										
	Lat CMD	Lon	Helio 10 <sup>6</sup> hemi.	Area	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical						
									C	M	X	S	1	2	3	4		
<b>Region 4362</b>																		
29 Jan	S17E72	205	30	2	Hsx	1	A											
30 Jan	S17E58	206	20	1	Hsx	1	A	1										
31 Jan	S18E45	206	40	1	Hax	1	A											
01 Feb	S18E31	207	40	3	Hsx	1	A											
02 Feb	S17E18	207	40	2	Hsx	1	A											
03 Feb	S16E06	206	40	5	Cao	7	BG											
04 Feb	S16W08	206	30	4	Cao	6	B					1						
05 Feb	S17W22	207	40	4	Cao	8	B	1	2				2					
06 Feb	S17W35	207	20	3	Cao	3	B	2				1						
07 Feb	S17W48	207	50	5	Dao	3	B	1										
08 Feb	S18W60	206	40	4	Cao	4	B					1						
09 Feb	S18W74	206	plage															
10 Feb	S18W88	207	plage															
								5	2	0	3	2	0	0	0			

Crossed West Limb.  
 Absolute heliographic longitude: 206

<b>Region 4363</b>																		
29 Jan	S23E74	203	20	1	Hrx	1	A	1										
30 Jan	S24E59	205	30	7	Cao	3	B	1										
31 Jan	S26E45	206	30	2	Cao	2	B	1										
01 Feb	S26E31	207	plage															
02 Feb	S26E17	208	plage															
03 Feb	S26E03	208	plage															
04 Feb	S26W11	209	plage															
05 Feb	S26W25	210	plage															
06 Feb	S26W39	211	plage															
07 Feb	S26W53	212	plage															
08 Feb	S26W62	208	10	3	Bxo	2	B											
09 Feb	S27W76	208	plage															
10 Feb	S27W90	209	plage															
								3	0	0	0	0	0	0	0	0		

Crossed West Limb.  
 Absolute heliographic longitude: 208



### *Region Summary - continued*

Date	Location		Sunspot Characteristics				Flares											
	Lat CMD	Helio Lon	Area 10 <sup>6</sup> hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical							
								C	M	X	S	1	2	3	4			
<b>Region 4366</b>																		
30 Jan	N16E65	199	60	5	Dai	4	B	1										
31 Jan	N13E51	200	60	6	Dai	7	BGD	15				1						
01 Feb	N14E35	202	550	12	Ekc	21	BGD	2	17	2				1				
02 Feb	N14E21	204	730	14	Ekc	45	BGD	1	15	2			1	1				
03 Feb	N14E07	204	1100	16	Fkc	42	BGD	5	11	1	5	6						
04 Feb	N14W07	205	1090	17	Fkc	47	BGD	3	11	1	4	2	1					
05 Feb	N14W19	204	1100	18	Fkc	25	BGD	10	6		6							
06 Feb	N14W33	205	1100	19	Fkc	20	BGD	8			4	1						
07 Feb	N14W46	205	1000	20	Fkc	25	BGD	3										
08 Feb	N14W59	205	1000	20	Fkc	20	BGD	6	3		7	4	1					
09 Feb	N14W71	203	950	20	Fhc	22	BGD	5	1		1							
10 Feb	N14W84	204	800	19	Fhc	22	BGD	5	1									
								64	65	6	28	14	4	0	0			

Crossed West Limb.  
 Absolute heliographic longitude: 204

<b>Region 4367</b>																		
31 Jan	N10E75	176	60	2	Hsx	1	A											
01 Feb	N07E62	176	30	3	Hsx	1	A											
02 Feb	N09E50	175	50	5	Cso	4	B											
03 Feb	N09E38	174	50	8	Cao	10	B											
04 Feb	N09E25	174	50	9	Cao	5	B											
05 Feb	N09E12	174	50	8	Cao	5	B											
06 Feb	N09W02	174	40	7	Cao	4	B											
07 Feb	N09W18	177	40	4	Cao	3	B											
08 Feb	N09W31	177	20	2	Hax	1	A											
09 Feb	N09W45	177	20	2	Hax	2	A											
10 Feb	N09W58	178	15	1	Hrx	1	A											
11 Feb	N09W70	176	10	1	Hrx	1	A											
12 Feb	N09W83	176	10	1	Hrx	1	A											
								0	0	0	0	0	0	0	0	0		

Crossed West Limb.  
 Absolute heliographic longitude: 174



**Region Summary - continued**

Date	Location		Sunspot Characteristics				Flares										
	Lat CMD	Helio Lon	Area 10 <sup>6</sup> hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical						
								C	M	X	S	1	2	3	4		
<b>Region 4368</b>																	
31 Jan	S08E76	175	120	2	Hsx	1	A										
01 Feb	S10E63	175	30	3	Hsx	1	A										
02 Feb	S10E51	175	30	3	Hsx	1	A										
03 Feb	S10E38	174	40	2	Hsx	1	A										
04 Feb	S10E25	173	40	2	Hsx	1	A										
05 Feb	S10E12	174	40	2	Hsx	1	A										
06 Feb	S10W03	175	50	2	Hsx	1	A										
07 Feb	S10W15	174	100	1	Hsx	1	A										
08 Feb	S10W28	174	100	2	Hsx	1	A										
09 Feb	S10W42	174	100	2	Hsx	1	A										
10 Feb	S10W55	175	100	2	Hsx	1	A										
11 Feb	S10W67	173	80	2	Hsx	1	A										
12 Feb	S09W80	173	50	1	Hsx	1	A										
								0	0	0	0	0	0	0	0	0	0

Crossed West Limb.  
 Absolute heliographic longitude: 175

<b>Region 4369</b>																	
01 Feb	S01E71	167	120	4	Hsx	1	A										
02 Feb	S02E57	168	120	2	Hsx	1	A										
03 Feb	S03E43	168	40	2	Hsx	1	A										
04 Feb	S04E30	168	40	2	Cso	2	B										
05 Feb	S03E17	168	40	2	Hsx	1	A										
06 Feb	S03E03	169	70	2	Hsx	1	A										
07 Feb	S03W10	169	110	2	Hsx	1	A										
08 Feb	S03W23	169	110	2	Hsx	1	A										
09 Feb	S03W38	170	110	2	Hsx	1	A										
10 Feb	S03W51	171	110	2	Hsx	2	A										
11 Feb	S03W63	169	80	2	Hsx	1	A										
12 Feb	S02W79	172	50	2	Hsx	1	A										
13 Feb	S03W91	171	50	2	Hsx	1	A										
								0	0	0	0	0	0	0	0	0	0

Crossed West Limb.  
 Absolute heliographic longitude: 169





**Region Summary - continued**

Date	Location		Sunspot Characteristics				Flares											
	Lat CMD	Helio Lon	Area 10 <sup>6</sup> hemi.	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical							
								C	M	X	S	1	2	3	4			
<b>Region 4373</b>																		
06 Feb	N10E66	106	60	2	Hsx	1	A											
07 Feb	N09E56	103	130	8	Cso	6	B											
08 Feb	N08E43	103	130	9	Cso	5	B											
09 Feb	N09E24	108	120	4	Hax	3	A											
10 Feb	N09E10	110	140	3	Hax	3	A											
11 Feb	N09W02	108	120	3	Hsx	2	A	1				2						
12 Feb	N09W16	109	120	3	Cao	5	B											
13 Feb	N10W30	110	130	3	Cao	5	B		1			1						
14 Feb	N10W43	110	130	3	Hax	3	A											
15 Feb	N09W56	109	130	3	Hax	3	A											
								1	1	0		3	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 108

**Region 4374**

09 Feb	N11E72	61	150	11	Cko	5	B	3				1						
10 Feb	N11E58	62	200	10	Cso	5	B	2										
11 Feb	N11E45	61	210	10	Cso	7	B	1				1						
12 Feb	N10E31	62	200	10	Cso	2	B											
13 Feb	N11E20	60	210	11	Cso	3	B											
14 Feb	N10E02	65	200	3	Hsx	1	A	2										
15 Feb	N10W11	65	200	3	Hsx	2	A	1				1						
								9	0	0		3	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 65

**Region 4375**

11 Feb	N16E72	34	60	2	Hsx	1	A											
12 Feb	N15E57	36	40	1	Hsx	1	A											
13 Feb	N16E44	35	40	1	Hax	1	A											
14 Feb	N16E31	35	30	2	Hax	1	A											
15 Feb	N16E18	35	20	1	Hrx	1	A											
								0	0	0		0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 35



### *Region Summary - continued*

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

#### *Region 4376*

14 Feb	N13E54	13	10	1	Axx	1	A										
15 Feb	N13E41	13	10	1	Axx	1	A										
								0	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 13

#### *Region 4377*

14 Feb	N09E68	359	60	4	Cao	4	B										
15 Feb	N08E55	359	50	4	Cro	8	BD										
								0	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 359



## ***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

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

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Guide

