Solar activity was at low to high levels during the period. Numerous C-class flares were observed from Regions 3211 (S17, L=295, class/area Dao/100 on 06 Feb), 3213 (N30, L=223, class/area Fki/480 on 12 Feb) and 3214 (N12, L=205, class/area Dki/380 on 11 Feb). 07 Feb experienced R1-R2 (Minor-Moderate) activity with M-class activity from Region 3213 to include an M6.3 observed at 07/2307 UTC. R1 (Minor) levels occurred on 08 Feb from Region 3213 and 3217 (S12, L=137, class/area Dki/400 on 12 Feb). 09 Feb witnessed six total R1 (Minor) flares from Regions 3213 and 3217. Of note was an M1.1/Sf at 09/0717 UTC from Region 3217 with associated Type II (672 km/s) and Type IV radio emissions and an M2.8 from Region 3217 at 09/0907 UTC with associated Type II (453 km/s) and Type IV radio emissions.

10 Feb saw five total R1 (Minor) flares from Regions 3208 (N08, L=251, class/area Dao/070 on 11 Feb), 3220 (S15, L=122, class area Cso/150 on 12 Feb) and 3213. At 10/030 UTC, Region 3213 produced an M3.7/2n with associated Type II (376 km/s) and Type IV radio emissions. R1 (Minor) levels were reached on 11 Feb from Regions 3208, 3217, 3220 and 3222 (N30, L=251, class/area Dao/040 on 12 Feb). R3 (Strong) levels were observed at 11/1548 UTC from Region 3217 when the region produced an X1.1/1b flare. The highlight period ended on 12 Feb with R1 (Minor) flare activity from Regions 3217 and 3222. The flare and DSF activity during the week produced numrous CMEs, but most were detected to be Earth misses. The lone exception was from CME activity from events that took place on the Sun over 10-11 Feb.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal to moderate levels on 06, 07 and 11 Feb. High levels were observed on 08-10 Feb and 12 Feb with a peak flux of 2,520 pfu observed at 08/1550 UTC.

Geomagnetic field activity was at primarly unsettled to active levels, with a single G1 (Minor) minor storm reading late on 09 Feb. Activity was mostly associated with negative polarity CH HSS influence.

Space Weather Outlook 13 February - 11 March 2023

Solar activity is expected to be at low to M-class flare activity (R1-R2, Minor-Moderate) levels throughout the outlook period.

No proton events are expected at geosynchronous orbit. However, a chance for a proton event exists throughout the period from the more complex, magnetically active regions.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at high levels on 13-15 Feb and 07-11 Mar. Normal to moderate levels are expected on 16 Feb - 06 Mar.



Geomagnetic field activity is expected to range from quiet to active levels. Active conditions are likely on 14-15 Feb due to CME activity and 05-07 Mar due to negative polarity CH HSS activity. Unsettled levels are expected on 16 Feb due to waning CME activity, 22-24 Feb due to positive polarity CH HSS activity, 27 Feb, 02 Mar and 08 Mar, all due to negative polarity CH HSS activity.



Daily Solar Data

	Radio	Sun	Sunspot X-ray				F	Flares				
	Flux	spot	Area	Background		X-ra	<u>y</u>		0	ptica	1	
Date	10.7cm	No.	(10 ⁻⁶ hemi.)	Flux	C	M	X	S	1	2	3	4
06 February	158	139	260	B7.4	8	0	0	8	0	0	0	0
07 February	185	110	425	C1.7	13	3 2	0	10	2	0	0	0
08 February	192	131	1000	C1.7	6	4	0	15	2	1	0	0
09 February	215	150	1190	C3.2	9	6	0	14	3	0	0	0
10 February	208	190	1610	C2.3	8	5	0	29	3	1	0	0
11 February	210	209	1720	C2.8	6	7	1	55	4	1	0	0
12 February	200	197	1730	C2.4	9	4	0	10	2	0	0	0

Daily Particle Data

		Fluence n ² -day-sr)	Electron Fluence (electrons/cm ² -day -sr)				
Date	>1 MeV	>10 MeV	>2MeV				
06 February	1.2e+05	2.5e+04	1.1e+06				
07 February	2.5e + 05	2.5e+04	8.0e+06				
08 February	9.3e+05	2.5e+04	6.4e + 07				
09 February	5.6e + 05	2.4e+04	4.2e+07				
10 February	3.0e+05	2.3e+04	2.5e+07				
11 February	3.2e+05	2.3e+04	4.3e+07				
12 February	6.5e+05	2.5e+04	5.3e+07				

Daily Geomagnetic Data

	M	Iiddle Latitude	F	High Latitude	Estimated		
	F	Fredericksburg		College	Planetary		
Date	A	A K-indices		A K-indices		K-indices	
06 February	13	3-2-3-3-2-3-3	16	1-3-3-4-4-3-3-2	18	4-4-3-3-3-2-4-4	
07 February	12	3-3-3-3-2-2-2	27	3-4-2-6-4-4-4-2	20	4-4-3-4-3-3-3	
08 February	12	2-4-2-3-2-3-2	25	2-4-3-5-5-4-3-3	18	3-4-3-4-3-3-3	
09 February	16	2-4-3-3-3-3-2-4	33	3-3-3-6-5-5-3-4	21	3-4-3-3-3-3-5	
10 February	12	4-2-2-2-2-3-3	21	3-3-4-4-5-3-3-2	16	4-3-3-3-3-2-3-4	
11 February	10	4-3-1-3-2-2-1-1	21	3-5-3-5-4-1-2-1	11	4-3-2-3-2-1-1-1	
12 February	5	1-2-2-1-2-1	9	1-2-3-3-2-3-1-1	7	2-3-2-2-1-2-2	



Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
06 Feb 0222	WARNING: Geomagnetic K = 4	06/0220 - 0900
06 Feb 0248	ALERT: Geomagnetic K = 4	06/0248
06 Feb 0855	EXTENDED WARNING: Geomagnetic K =	4 06/0220 - 1800
06 Feb 1924	WARNING: Geomagnetic $K = 4$	06/1925 - 07/0300
06 Feb 2101	ALERT: Geomagnetic K = 4	06/2058
07 Feb 0257	EXTENDED WARNING: Geomagnetic K =	4 06/1925 - 07/1500
07 Feb 1458	EXTENDED WARNING: Geomagnetic K =	4 06/1925 - 07/2100
07 Feb 2310	ALERT: X-ray Flux exceeded M5	07/2309
08 Feb 0020	SUMMARY: X-ray Event exceeded M5	07/2246 - 2309
08 Feb 0456	WARNING: Geomagnetic $K = 4$	08/0455 - 1200
08 Feb 0512	ALERT: Geomagnetic $K = 4$	08/0505
08 Feb 1132	EXTENDED WARNING: Geomagnetic K =	4 08/0455 - 1800
08 Feb 1302	ALERT: Electron 2MeV Integral Flux >= 1000p	fu 08/1300
08 Feb 2201	WARNING: Geomagnetic $K = 4$	08/2201 - 09/0300
09 Feb 0414	WARNING: Geomagnetic $K = 4$	09/0414 - 0900
09 Feb 0426	ALERT: Geomagnetic $K = 4$	09/0415
09 Feb 0748	ALERT: Type II Radio Emission	09/0725
09 Feb 0806	ALERT: Type IV Radio Emission	09/0729
09 Feb 0854	EXTENDED WARNING: Geomagnetic K =	4 09/0414 - 1500
09 Feb 0926	ALERT: Type IV Radio Emission	09/0853
09 Feb 1446	EXTENDED WARNING: Geomagnetic K =	4 09/0414 - 1800
09 Feb 1506	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	08/1300
09 Feb 1754	EXTENDED WARNING: Geomagnetic K =	4 09/0414 - 2359
09 Feb 2258	EXTENDED WARNING: Geomagnetic K =	4 09/0414 - 10/0600
09 Feb 2326	WARNING: Geomagnetic $K = 5$	09/2326 - 10/0600
09 Feb 2329	EXTENDED WARNING: Geomagnetic K =	4 09/0414 - 10/1500
09 Feb 2356	ALERT: Geomagnetic K = 5	09/2354
10 Feb 0406	ALERT: Type II Radio Emission	10/0304

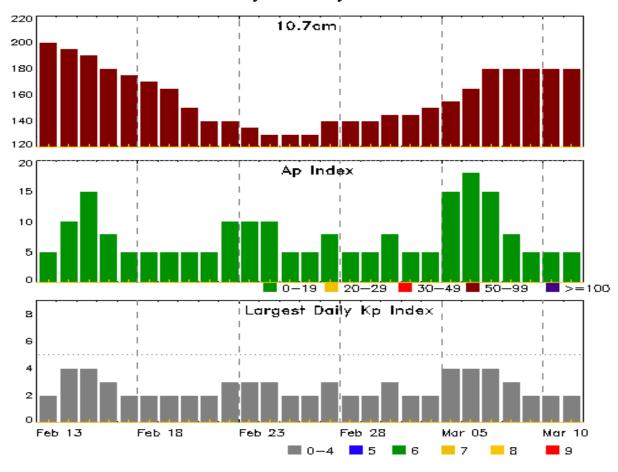


Alerts and Warnings Issued

Date & Time		Date & Time
of Issue UTC	Type of Alert or Warning	of Event UTC
10 Feb 0406	ALERT: Type IV Radio Emission	10/0319
10 Feb 2252	WARNING: Geomagnetic $K = 4$	10/2250 - 11/0900
10 Feb 2257	ALERT: Geomagnetic $K = 4$	10/2257
11 Feb 0855	EXTENDED WARNING: Geomagnetic K = 4	10/2250 - 11/1500
11 Feb 1550	ALERT: X-ray Flux exceeded M5	11/1547
11 Feb 1611	SUMMARY: X-ray Event exceeded X1	11/1540 - 1554
12 Feb 1639	ALERT: Electron 2MeV Integral Flux >= 1000pft	12/1600



Twenty-seven Day Outlook



	Radio Flux	Planetary	Largest		Radio Flux	Planetary	Largest
Date	10.7cm	A Index	Kp Index	Date	10.7cm	A Index	Kp Index
13 Feb	200	5	2	27 Feb	140	8	3
14	195	10	4	28	140	5	2
15	190	15	4	01 Mar	140	5	2
16	180	8	3	02	145	8	3
17	175	5	2	03	145	5	2
18	170	5	2	04	150	5	2
19	165	5	2	05	155	15	4
20	150	5	2	06	165	18	4
21	140	5	2	07	180	15	4
22	140	10	3	08	180	8	3
23	135	10	3	09	180	5	2
24	130	10	3	10	180	5	2
25	130	5	2	11	180	5	2
26	130	5	2				



Energetic Events

		Time		X-	ray	Optio	cal Informati	on	Pe	eak	Sw	eep	Freq
			Half		Integ	Imp/	Location	Rgn	Radio	o Flux	<u>I</u> 1	ntens	sity
Date	Begin	Max	Max	Class	Flux	Brtns	Lat CMD	#	245	2695]	Ι	IV
07 Feb	2001	2007	2014	M1.5	0.007	' 1N	N30E05	3213			57		
07 Feb	2305	2307	2309	M6.3	0.012)		3213	1	00			
08 Feb	0245	0253	0257	M2.0	0.007	'		3213					
08 Feb	1528	1603	1626	M1.6	0.037	2N	N31W05	3213	4	70			
08 Feb	1956	2012	2046	M1.5	0.035	1N	S09E72	3217					
08 Feb	2103	2113	2121	M1.7	0.011	1F	N30W10	3213					
09 Feb	0245	0310	0328	M3.0	0.041			3217	2	30			
09 Feb	0711	0717	0721	M1.1	0.004	SF	S02E70	3217	5	30			
09 Feb	0849	0907	0924	M2.8	0.038	}		3217	2	20		1	1
09 Feb	1444	1456	1505	M1.5	0.012	2 1N	N30W18	3213					
09 Feb	1514	1525	1534	M1.4	0.015	SN SN	S09E69	3217					
09 Feb	1818	1842	1902	M1.8	0.037	'		3213					
10 Feb	0245	0303	0320	M3.7	0.046	2N	N29W25	3213	3	70	110	2	1
10 Feb	0802	0805	0809	M1.4	0.004	SN	N31W27	3213					
10 Feb	1435	1455	1512	M1.1	0.018	3 1F	N34W29	3213	8	70			
10 Feb	1529	1600	1613	M1.6	0.033	}		3213					
10 Feb	2234	2241	2248	M1.2	0.008	3 1N	S18E63	3220	4	10			
11 Feb	0759	0808	0815	M2.2	0.017	1N	N06W68	3208					
11 Feb	1042	1058	1129	M1.0	0.008	3 1N	S18E57	3220					
11 Feb	1129	1134	1141	M1.4	0.009)		3222					
11 Feb	1205	1209	1215	M1.5	0.009	SF	S11E42	3217					
11 Feb	1218	1223	1228	M1.1	0.007	'		3217					
11 Feb	1228	1240	1249	M1.5	0.017	' SF	N06W71	3208					
11 Feb	1540	1548	1554	X1.1	0.046	2B	S08E39	3217					
11 Feb	1711	1723	1731	M1.4	0.011			3208					
12 Feb	0835	0848	0852	M3.1	0.014	1B	S09E30	3217		2	200		
12 Feb	0911	0927	0937	M1.4	0.018	3		3217	1	00			
12 Feb	1323	1334	1344	M1.2	0.010)		3222					
12 Feb	1533	1538	1601	M1.0	0.013	SN SN	S09E26	3217	140	00			



Flare List

				Optical					
		Time		X-ray	Imp/	Location	Rgn		
Date	Begin	Max	End	Class	Brtns	Lat CMD	#		
06 Feb	1144	1151	1155	C1.3			3213		
06 Feb	1158	1212	1225	C7.8			3211		
06 Feb	1519	1524	1526		SF	N11E40	3214		
06 Feb	1536	1546	1601	C1.5	SF	S17W62	3212		
06 Feb	1607	1617	1628	C1.9	SF	S17W62	3212		
06 Feb	1655	1700	1704	C3.0	SF	N30E19	3213		
06 Feb	1737	1744	1750	C1.6			3212		
06 Feb	1752	1756	1800	C2.1			3213		
06 Feb	1844	1844	1854		SF	N11E39	3214		
06 Feb	2015	2019	2034	C2.1	SF	N29E17	3213		
06 Feb	2042	2049	2104		SF	N11E37	3214		
06 Feb	2115	2116	2120		SF	N31E16	3213		
06 Feb	2231	2236	2244		SF	N29E15	3213		
07 Feb	0018	0018	0102		SF	N12E36	3214		
07 Feb	0105	0108	0122	C2.0	SF	N12E36	3214		
07 Feb	0234	0242	0249	C3.0					
07 Feb	0257	0313	0317		SF	N12E36	3214		
07 Feb	0324	0330	0334		SF	N12E36	3214		
07 Feb	0337	0345	0351	C2.1					
07 Feb	0452	0518	0529		SF	N12E36	3214		
07 Feb	0600	0607	0611	C3.5					
07 Feb	0657	0715	0731	C2.2	SF	N12E36	3214		
07 Feb	0822	0832	0844	C3.2	SF	N28E10	3213		
07 Feb	0845	0917	1004		1F	N28E10	3213		
07 Feb	0948	0951	1005	C3.0	SF	N29E10	3213		
07 Feb	1202	1213	1216	C2.5					
07 Feb	1309	1323	1333	C5.5			3213		
07 Feb	1505	2008	2141		1N	N30E05	3213		
07 Feb	1710	1717	1723	C6.7			3213		
07 Feb	1806	1809	1814	C5.4	SF	S16W64	3211		
07 Feb	1926	1933	1938	C4.5					
07 Feb	1944	1947	1954		SF	S17W63	3211		
07 Feb	2001	2007	2014	M1.5			3213		
07 Feb	2121	2130	2134	C5.3			3211		
07 Feb	2305	2307	2309	M6.3			3213		
08 Feb	0114	0115	0124		SF	S17W67	3211		
08 Feb	0157	0157	0200		SF	N10E21	3214		
08 Feb	0206	0217	0219	C4.5	SF	S17W67	3211		



Flare List

Name					Optical					
08 Feb 0245 0253 0257 M2.0 3213 08 Feb 0331 0336 0336 SF \$18W83 3212 08 Feb 04412 0441 SF N23E50 3215 08 Feb 0445 0446 0449 SF \$18W83 3212 08 Feb 0504 0521 0534 C5.3 3213 08 Feb 0627 0637 0645 C3.7 SF N31E02 3213 08 Feb 0732 0732 0741 SF N31E02 3213 08 Feb 1004 1033 1047 C7.4 SN N29W03 3213 08 Feb 1102 1122 1155 SF N28W04 3213 08 Feb 1102 1122 1155 SF N28W04 3213 08 Feb 1434 1557 1722 2N N31W05 3213 08 Feb 1528 1603 1626 M1.6 3213 <th></th> <th></th> <th>Time</th> <th></th> <th>X-ray</th> <th></th> <th></th> <th>Rgn</th>			Time		X-ray			Rgn		
08 Feb 0331 0336 0336 SF \$18W83 3212 08 Feb 0412 0412 0441 SF N23E50 3215 08 Feb 0445 0446 0449 SF \$18W83 3212 08 Feb 0504 0521 0534 C5.3 3213 08 Feb 0627 0637 0645 C3.7 SF N31E02 3213 08 Feb 0732 0732 0741 SF N31E02 3213 08 Feb 1004 1033 1047 C7.4 SN N29W03 3213 08 Feb 1102 1122 1155 SF N28W04 3213 08 Feb 1102 1122 1155 SF N21W02 3209 08 Feb 1122 1136 1204 SF N21W02 3209 08 Feb 1500 1505 1512 C2.7 3217 3217 08 Feb 1528 1603 1626 <th>Date</th> <th>Begin</th> <th>Max</th> <th>End</th> <th>Class</th> <th>Brtns</th> <th>Lat CMD</th> <th>#</th>	Date	Begin	Max	End	Class	Brtns	Lat CMD	#		
08 Feb 0412 0412 0441 SF N23E50 3215 08 Feb 0445 0446 0449 SF S18W83 3212 08 Feb 0504 0521 0534 C5.3 3213 08 Feb 0627 0637 0645 C3.7 SF N31E02 3213 08 Feb 0732 0732 0741 SF N31E02 3213 08 Feb 1004 1033 1047 C7.4 SN N29W03 3213 08 Feb 1102 1122 1155 SF N28W04 3213 08 Feb 1122 1136 1204 SF N21W02 3209 08 Feb 1434 1557 1722 2N N31W05 3213 08 Feb 1500 1505 1512 C2.7 3217 08 Feb 1813 1940 2049 SF N30W13 3213 08 Feb 198 1923 1935 SF	08 Feb	0245	0253	0257	M2.0			3213		
08 Feb 0445 0446 0449 SF \$\$18W83\$ 3212 08 Feb 0504 0521 0534 \$\$C5.3\$ \$\$3213\$ 08 Feb 0627 0637 0645 \$\$C3.7\$ \$\$F\$ \$\$N31E02\$ 3213\$ 08 Feb 0732 0732 0741 \$\$F\$ \$\$N31E02\$ 3213\$ 08 Feb 1004 1033 1047 \$\$C7.4\$ \$\$N\$ \$\$N29W03\$ 3213\$ 08 Feb 1102 1122 1155 \$\$F\$ \$\$N28W04\$ 3213\$ 08 Feb 1122 1136 1204 \$\$F\$ \$\$N21W02\$ 3209\$ 08 Feb 1434 1557 1722 2N \$\$N31W05\$ 3213\$ 08 Feb 1500 1505 1512 \$\$C2.7\$ \$\$3217\$ 08 Feb 1813 1940 2049 \$\$\$F\$ \$\$N30W13\$ 3213\$ 08 Feb 1839 1846 1850 \$\$\$\$C6.4\$ \$\$\$3213\$ 08 Feb 1908 1923	08 Feb	0331	0336	0336		SF	S18W83	3212		
08 Feb 0504 0521 0534 C5.3 3213 08 Feb 0627 0637 0645 C3.7 SF N31E02 3213 08 Feb 0732 0732 0741 SF N31E02 3213 08 Feb 1004 1033 1047 C7.4 SN N29W03 3213 08 Feb 1102 1122 1155 SF N28W04 3213 08 Feb 1122 1136 1204 SF N21W02 3209 08 Feb 1434 1557 1722 2N N31W05 3213 08 Feb 1500 1505 1512 C2.7 3217 08 Feb 1528 1603 1626 M1.6 3213 08 Feb 1813 1940 2049 SF N30W13 3213 08 Feb 1839 1846 1850 C6.4 3213 3213 08 Feb 1908 1923 1935 SF S15W82 <td>08 Feb</td> <td>0412</td> <td>0412</td> <td>0441</td> <td></td> <td>SF</td> <td>N23E50</td> <td>3215</td>	08 Feb	0412	0412	0441		SF	N23E50	3215		
08 Feb 0627 0637 0645 C3.7 SF N31E02 3213 08 Feb 0732 0732 0741 SF N31E02 3213 08 Feb 1004 1033 1047 C7.4 SN N29W03 3213 08 Feb 1102 1122 1155 SF N28W04 3213 08 Feb 1122 1136 1204 SF N21W02 3209 08 Feb 1434 1557 1722 2N N31W05 3213 08 Feb 1500 1505 1512 C2.7 3217 08 Feb 1528 1603 1626 M1.6 3213 08 Feb 1813 1940 2049 SF N30W13 3213 08 Feb 1839 1846 1850 C6.4 3213 3213 08 Feb 1908 1923 1935 SF S15W82 3211 08 Feb 1956 2012 2046 M1.5 <td>08 Feb</td> <td>0445</td> <td>0446</td> <td>0449</td> <td></td> <td>SF</td> <td>S18W83</td> <td>3212</td>	08 Feb	0445	0446	0449		SF	S18W83	3212		
08 Feb 0732 0732 0741 SF N31E02 3213 08 Feb 1004 1033 1047 C7.4 SN N29W03 3213 08 Feb 1102 1122 1155 SF N28W04 3213 08 Feb 1122 1136 1204 SF N21W02 3209 08 Feb 1434 1557 1722 2N N31W05 3213 08 Feb 1500 1505 1512 C2.7 3217 08 Feb 1528 1603 1626 M1.6 3213 08 Feb 1813 1940 2049 SF N30W13 3213 08 Feb 1839 1846 1850 C6.4 3213 3213 08 Feb 1908 1923 1935 SF S15W82 3211 08 Feb 1956 2012 2046 M1.5 1N S09E72 3217 08 Feb 2103 2113 2121 M1.7 <td>08 Feb</td> <td>0504</td> <td>0521</td> <td>0534</td> <td>C5.3</td> <td></td> <td></td> <td>3213</td>	08 Feb	0504	0521	0534	C5.3			3213		
08 Feb 1004 1033 1047 C7.4 SN N29W03 3213 08 Feb 1102 1122 1155 SF N28W04 3213 08 Feb 1122 1136 1204 SF N21W02 3209 08 Feb 1434 1557 1722 2N N31W05 3213 08 Feb 1500 1505 1512 C2.7 3217 08 Feb 1528 1603 1626 M1.6 3213 08 Feb 1813 1940 2049 SF N30W13 3213 08 Feb 1839 1846 1850 C6.4 3213 08 Feb 1908 1923 1935 SF S15W82 3211 08 Feb 1956 2012 2046 M1.5 1N S09E72 3217 08 Feb 2103 2113 2121 M1.7 1F N30W10 3213 08 Feb 2210 2214 2217 SF	08 Feb	0627	0637	0645	C3.7	SF	N31E02	3213		
08 Feb 1102 1122 1155 SF N28W04 3213 08 Feb 1122 1136 1204 SF N21W02 3209 08 Feb 1434 1557 1722 2N N31W05 3213 08 Feb 1500 1505 1512 C2.7 3217 08 Feb 1528 1603 1626 M1.6 3213 08 Feb 1813 1940 2049 SF N30W13 3213 08 Feb 1839 1846 1850 C6.4 3213 08 Feb 1908 1923 1935 SF N15W82 3211 08 Feb 1956 2012 2046 M1.5 1N S09E72 3217 08 Feb 2103 2113 2121 M1.7 1F N30W10 3213 08 Feb 2210 2214 2217 SF N11E07 3214 08 Feb 2222 2228 2229 SF N30W10 <td>08 Feb</td> <td>0732</td> <td>0732</td> <td>0741</td> <td></td> <td>SF</td> <td>N31E02</td> <td>3213</td>	08 Feb	0732	0732	0741		SF	N31E02	3213		
08 Feb 1122 1136 1204 SF N21W02 3209 08 Feb 1434 1557 1722 2N N31W05 3213 08 Feb 1500 1505 1512 C2.7 3217 08 Feb 1528 1603 1626 M1.6 3213 08 Feb 1813 1940 2049 SF N30W13 3213 08 Feb 1839 1846 1850 C6.4 3213 08 Feb 1908 1923 1935 SF S15W82 3211 08 Feb 1956 2012 2046 M1.5 1N S09E72 3217 08 Feb 2103 2113 2121 M1.7 1F N30W10 3213 08 Feb 2210 2214 2217 SF N11E07 3214 08 Feb 2222 2228 2229 SF N30W10 3213 09 Feb 0037 0038 0044 SF N25E45 <td>08 Feb</td> <td>1004</td> <td>1033</td> <td>1047</td> <td>C7.4</td> <td>SN</td> <td>N29W03</td> <td>3213</td>	08 Feb	1004	1033	1047	C7.4	SN	N29W03	3213		
08 Feb 1434 1557 1722 2N N31W05 3213 08 Feb 1500 1505 1512 C2.7 3217 08 Feb 1528 1603 1626 M1.6 3213 08 Feb 1813 1940 2049 SF N30W13 3213 08 Feb 1839 1846 1850 C6.4 3213 08 Feb 1908 1923 1935 SF S15W82 3211 08 Feb 1956 2012 2046 M1.5 1N S09E72 3217 08 Feb 2103 2113 2121 M1.7 1F N30W10 3213 08 Feb 2210 2214 2217 SF N11E07 3214 08 Feb 2222 2228 2229 SF N30W10 3213 09 Feb 0037 0038 0044 SF N25E45 3216 09 Feb 0300 0309 0433 SN N31W13 <td>08 Feb</td> <td>1102</td> <td>1122</td> <td>1155</td> <td></td> <td>SF</td> <td>N28W04</td> <td>3213</td>	08 Feb	1102	1122	1155		SF	N28W04	3213		
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09 Feb 1430 1453 1527 M1.5 1N N30W18 3213	09 Feb	1430	1453	1527	M1.5	1N	N30W18	3213		
09 Feb 1510 1522 1552 M1.4 SN S09E69 3217	09 Feb	1510	1522	1552	M1.4	SN	S09E69	3217		
09 Feb 1532 1537 1545 1F N00E00 3211	09 Feb	1532	1537	1545		1F	N00E00	3211		
09 Feb 1638 1639 1648 SF N28W22 3213	09 Feb	1638	1639	1648		SF	N28W22	3213		
09 Feb 1707 1714 1718 C6.4 SF N29W21 3213	09 Feb	1707	1714	1718	C6.4	SF	N29W21	3213		
09 Feb 1745 1752 1804 C6.2 3213	09 Feb	1745	1752	1804	C6.2			3213		



Flare List

				Optical					
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09 Feb	2241	2244	2248	C4.9	SF	N34W17	3213		
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10 Feb	0212	0212	0217		SF	N29W22	3213		
10 Feb	0245	0303	0320	M3.7	2N	N29W25	3213		
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10 Feb	0944	0954	1000		SF	S10E55	3217		
10 Feb	1016	1017	1022		SF	N11W10	3214		
10 Feb	1023	1029	1034	C4.1			3208		
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10 Feb	1025	1029	1038		SF	S10E55	3217		
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10 Feb	1043	1050	1054	C9.6	SF	S11E54	3217		
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10 Feb	1747	1751	1811		SF	S21E68	3220		
10 Feb	2006	2007	2014		SF	N33W33	3213		
10 Feb	2028	2028	2035		SF	S14E49	3217		
10 Feb	2140	2144	2146		SF	N07W64	3208		
10 Feb	2210	2210	2227		SF	N12W17	3214		



Flare List

Date					Optical					
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11 Feb 0050 0103 0107 SF N11W20 3214 11 Feb 0053 0058 0113 SF S09E46 3217 11 Feb 0134 0136 0143 SF N11W20 3214 11 Feb 0213 0224 0231 SF N11W20 3214 11 Feb 04418 0431 0441 SF S13E54 3220 11 Feb 0440 0452 0505 SF N29W68 3222 11 Feb 0523 0526 0541 SF N29W68 3222 11 Feb 0610 0620 0627 C5.2 SF N06W68 3208 11 Feb 0642 0643 0651 C7.2 SF N10W24 3214 11 Feb 0711 0712 0729 SF N28W39 3213 11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0728 0734 <td>11 Feb</td> <td>B0000</td> <td>0010</td> <td>0059</td> <td></td> <td>SF</td> <td>N29W37</td> <td>3213</td>	11 Feb	B0000	0010	0059		SF	N29W37	3213		
11 Feb 0053 0058 0113 SF S09E46 3217 11 Feb 0134 0136 0143 SF N11W20 3214 11 Feb 0213 0224 0231 SF N11W20 3214 11 Feb 0418 0431 0441 SF S13E54 3220 11 Feb 0440 0452 0505 SF N29W37 3213 11 Feb 0523 0526 0541 SF N29W68 3222 11 Feb 0610 0620 0627 C5.2 SF N06W68 3222 11 Feb 06610 0620 0627 C5.2 SF N06W68 3222 11 Feb 0662 0645 0651 C7.2 3208 3214 11 Feb 0711 0712 0729 SF N28W39 3213 11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0728 0728 <td>11 Feb</td> <td>0014</td> <td>0222</td> <td>0239</td> <td></td> <td>SF</td> <td>N08W66</td> <td>3208</td>	11 Feb	0014	0222	0239		SF	N08W66	3208		
11 Feb 0134 0136 0143 SF N11W20 3214 11 Feb 0213 0224 0231 SF N11W20 3214 11 Feb 0418 0431 0441 SF S13E54 3220 11 Feb 0440 0452 0505 SF N29W37 3213 11 Feb 0523 0526 0541 SF N29W68 3222 11 Feb 0610 0620 0627 C5.2 SF N06W68 3208 11 Feb 0642 0645 0651 C7.2 SF N10W24 3214 11 Feb 0711 0712 0729 SF N28W39 3213 11 Feb 0711 0712 0729 SF N28W39 3214 11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0720 0752 0818 SF N10W25 3214 11 Feb 0742 0748 <td>11 Feb</td> <td>0050</td> <td>0103</td> <td>0107</td> <td></td> <td>SF</td> <td>N11W20</td> <td>3214</td>	11 Feb	0050	0103	0107		SF	N11W20	3214		
11 Feb 0213 0224 0231 SF N11W20 3214 11 Feb 0418 0431 0441 SF S13E54 3220 11 Feb 0440 0452 0505 SF N29W37 3213 11 Feb 0523 0526 0541 SF N29W68 3222 11 Feb 0610 0620 0627 C5.2 SF N06W68 3208 11 Feb 0642 0645 0651 C7.2 3208 3214 11 Feb 0711 0712 0729 SF N10W24 3214 11 Feb 0711 0712 0729 SF N28W39 3213 11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0720 0752 0818 SF S10E44 3217 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 <td>11 Feb</td> <td>0053</td> <td>0058</td> <td>0113</td> <td></td> <td>SF</td> <td>S09E46</td> <td>3217</td>	11 Feb	0053	0058	0113		SF	S09E46	3217		
11 Feb 0418 0431 0441 SF S13E54 3220 11 Feb 0440 0452 0505 SF N29W37 3213 11 Feb 0523 0526 0541 SF N29W68 3222 11 Feb 0610 0620 0627 C5.2 SF N06W68 3208 11 Feb 0627 0634 0642 C7.7 SF N10W24 3214 11 Feb 0642 0645 0651 C7.2 3208 11 Feb 0711 0712 0729 SF N28W39 3213 11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0720 0752 0818 SF S10E44 3217 11 Feb 0728 0728 0734 SF N07W67 3208 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 <td>11 Feb</td> <td>0134</td> <td>0136</td> <td>0143</td> <td></td> <td>SF</td> <td>N11W20</td> <td>3214</td>	11 Feb	0134	0136	0143		SF	N11W20	3214		
11 Feb 0440 0452 0505 SF N29W37 3213 11 Feb 0523 0526 0541 SF N29W68 3222 11 Feb 0610 0620 0627 C5.2 SF N06W68 3208 11 Feb 0627 0634 0642 C7.7 SF N10W24 3214 11 Feb 0642 0645 0651 C7.2 3208 11 Feb 0711 0712 0729 SF N28W39 3213 11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0720 0752 0818 SF S10E44 3217 11 Feb 0728 0728 0734 SF N07W67 3208 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 1N N06W68 3208 11 Feb 0747 0751 0755 <td>11 Feb</td> <td>0213</td> <td>0224</td> <td>0231</td> <td></td> <td>SF</td> <td>N11W20</td> <td>3214</td>	11 Feb	0213	0224	0231		SF	N11W20	3214		
11 Feb 0523 0526 0541 SF N29W68 3222 11 Feb 0610 0620 0627 C5.2 SF N06W68 3208 11 Feb 0627 0634 0642 C7.7 SF N10W24 3214 11 Feb 0642 0645 0651 C7.2 3208 11 Feb 0711 0712 0729 SF N28W39 3213 11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0720 0752 0818 SF S10E44 3217 11 Feb 0728 0728 0734 SF N07W67 3208 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 1N N06W68 3208 11 Feb 0747 0751 0755 SF N28W66 3222 11 Feb 0749 0800 0802 <td>11 Feb</td> <td>0418</td> <td>0431</td> <td>0441</td> <td></td> <td>SF</td> <td>S13E54</td> <td>3220</td>	11 Feb	0418	0431	0441		SF	S13E54	3220		
11 Feb 0610 0620 0627 C5.2 SF N06W68 3208 11 Feb 0627 0634 0642 C7.7 SF N10W24 3214 11 Feb 0642 0645 0651 C7.2 3208 11 Feb 0711 0712 0729 SF N28W39 3213 11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0720 0752 0818 SF S10E44 3217 11 Feb 0728 0728 0734 SF N07W67 3208 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 1N N06W68 3208 11 Feb 0747 0751 0755 SF N28W66 3222 11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 <td>11 Feb</td> <td>0440</td> <td>0452</td> <td>0505</td> <td></td> <td>SF</td> <td>N29W37</td> <td>3213</td>	11 Feb	0440	0452	0505		SF	N29W37	3213		
11 Feb 0627 0634 0642 C7.7 SF N10W24 3214 11 Feb 0642 0645 0651 C7.2 3208 11 Feb 0711 0712 0729 SF N28W39 3213 11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0720 0752 0818 SF S10E44 3217 11 Feb 0728 0728 0734 SF N07W67 3208 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 1N N06W68 3208 11 Feb 0747 0751 0755 SF N28W66 3222 11 Feb 0748 0756 0759 C9.9 3208 11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 M2.2 SF	11 Feb	0523	0526	0541		SF	N29W68	3222		
11 Feb 0642 0645 0651 C7.2 3208 11 Feb 0711 0712 0729 SF N28W39 3213 11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0720 0752 0818 SF S10E44 3217 11 Feb 0728 0728 0734 SF N07W67 3208 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 1N N06W68 3208 11 Feb 0744 0807 0833 1N N06W68 3222 11 Feb 0748 0756 0759 C9.9 3208 11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 M2.2 SF S10E43 <td>11 Feb</td> <td>0610</td> <td>0620</td> <td>0627</td> <td>C5.2</td> <td>SF</td> <td>N06W68</td> <td>3208</td>	11 Feb	0610	0620	0627	C5.2	SF	N06W68	3208		
11 Feb 0711 0712 0729 SF N28W39 3213 11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0720 0752 0818 SF S10E44 3217 11 Feb 0728 0728 0734 SF N07W67 3208 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 1N N06W68 3208 11 Feb 0747 0751 0755 SF N28W66 3222 11 Feb 0748 0756 0759 C9.9 3208 11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0831 0842 0852 SF S10E43 3217 11 Feb 09834 0834 0838 SF N21E60 3221 <td>11 Feb</td> <td>0627</td> <td>0634</td> <td>0642</td> <td>C7.7</td> <td>SF</td> <td>N10W24</td> <td>3214</td>	11 Feb	0627	0634	0642	C7.7	SF	N10W24	3214		
11 Feb 0713 0717 0800 SF N10W25 3214 11 Feb 0720 0752 0818 SF S10E44 3217 11 Feb 0728 0728 0734 SF N07W67 3208 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 1N N06W68 3208 11 Feb 0747 0751 0755 SF N28W66 3222 11 Feb 0748 0756 0759 C9.9 3208 11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0831 0842 0852 SF S10E43 3217 11 Feb 0834 0834 0838 SF N21E60 3221 11 Feb 0907 0907 0910 SF N10W25 3214 <td>11 Feb</td> <td>0642</td> <td>0645</td> <td>0651</td> <td>C7.2</td> <td></td> <td></td> <td>3208</td>	11 Feb	0642	0645	0651	C7.2			3208		
11 Feb 0720 0752 0818 SF S10E44 3217 11 Feb 0728 0728 0734 SF N07W67 3208 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 1N N06W68 3208 11 Feb 0747 0751 0755 SF N28W66 3222 11 Feb 0748 0756 0759 C9.9 3208 11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0831 0842 0852 SF S10E43 3217 11 Feb 0834 0834 0838 SF N21E60 3221 11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0926 0929 0951 SF N10W25 3	11 Feb	0711	0712	0729		SF	N28W39	3213		
11 Feb 0728 0728 0734 SF N07W67 3208 11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 1N N06W68 3208 11 Feb 0747 0751 0755 SF N28W66 3222 11 Feb 0748 0756 0759 C9.9 3208 11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0831 0842 0852 SF S10E43 3217 11 Feb 0934 0834 0838 SF N10W25 3214 11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0926 0929 0951 SF N28W67 3222 <td>11 Feb</td> <td>0713</td> <td>0717</td> <td>0800</td> <td></td> <td>SF</td> <td>N10W25</td> <td>3214</td>	11 Feb	0713	0717	0800		SF	N10W25	3214		
11 Feb 0742 0748 0757 SF N28W39 3213 11 Feb 0744 0807 0833 1N N06W68 3208 11 Feb 0747 0751 0755 SF N28W66 3222 11 Feb 0748 0756 0759 C9.9 3208 11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0831 0842 0852 SF S10E43 3217 11 Feb 0834 0834 0838 SF N21E60 3221 11 Feb 0907 0907 0910 SF N10W25 3214 11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0922 0922 0932 SF N28W67 3222 11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0943 1131 1143 SF N10	11 Feb	0720	0752	0818		SF	S10E44	3217		
11 Feb 0744 0807 0833 1N N06W68 3208 11 Feb 0747 0751 0755 SF N28W66 3222 11 Feb 0748 0756 0759 C9.9 3208 11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0831 0842 0852 SF S10E43 3217 11 Feb 0834 0834 0838 SF N21E60 3221 11 Feb 0907 0907 0910 SF N10W25 3214 11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0922 0922 0932 SF N10E54 3220 11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10	11 Feb	0728	0728	0734		SF	N07W67	3208		
11 Feb 0747 0751 0755 SF N28W66 3222 11 Feb 0748 0756 0759 C9.9 3208 11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0831 0842 0852 SF S10E43 3217 11 Feb 0834 0834 0838 SF N21E60 3221 11 Feb 0907 0907 0910 SF N10W25 3214 11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0922 0922 0932 SF N10E54 3220 11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0742	0748	0757		SF	N28W39	3213		
11 Feb 0748 0756 0759 C9.9 3208 11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0831 0842 0852 SF S10E43 3217 11 Feb 0834 0834 0838 SF N21E60 3221 11 Feb 0907 0907 0910 SF N10W25 3214 11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0922 0922 0932 SF S10E54 3220 11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0744	0807	0833		1N	N06W68	3208		
11 Feb 0749 0800 0802 SF N29W68 3222 11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0831 0842 0852 SF S10E43 3217 11 Feb 0834 0834 0838 SF N21E60 3221 11 Feb 0907 0907 0910 SF N10W25 3214 11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0922 0922 0932 SF S10E54 3220 11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0747	0751	0755		SF	N28W66	3222		
11 Feb 0759 0808 0815 M2.2 3208 11 Feb 0831 0842 0852 SF S10E43 3217 11 Feb 0834 0834 0838 SF N21E60 3221 11 Feb 0907 0907 0910 SF N10W25 3214 11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0922 0922 0932 SF S10E54 3220 11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0929 0935 0940 1N N21E59 3221 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0748	0756	0759	C9.9			3208		
11 Feb 0831 0842 0852 SF S10E43 3217 11 Feb 0834 0834 0838 SF N21E60 3221 11 Feb 0907 0907 0910 SF N10W25 3214 11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0922 0922 0932 SF S10E54 3220 11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0929 0935 0940 1N N21E59 3221 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0749	0800	0802		SF	N29W68	3222		
11 Feb 0834 0834 0838 SF N21E60 3221 11 Feb 0907 0907 0910 SF N10W25 3214 11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0922 0922 0932 SF S10E54 3220 11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0929 0935 0940 1N N21E59 3221 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0759	0808	0815	M2.2			3208		
11 Feb 0907 0907 0910 SF N10W25 3214 11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0922 0922 0932 SF S10E54 3220 11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0929 0935 0940 1N N21E59 3221 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0831	0842	0852		SF	S10E43	3217		
11 Feb 0913 0921 0932 C7.3 SF S10E43 3217 11 Feb 0922 0922 0932 SF S10E54 3220 11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0929 0935 0940 1N N21E59 3221 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0834	0834	0838		SF	N21E60	3221		
11 Feb 0922 0922 0932 SF S10E54 3220 11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0929 0935 0940 1N N21E59 3221 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0907	0907	0910		SF	N10W25	3214		
11 Feb 0926 0929 0951 SF N28W67 3222 11 Feb 0929 0935 0940 1N N21E59 3221 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0913	0921	0932	C7.3	SF	S10E43	3217		
11 Feb 0929 0935 0940 1N N21E59 3221 11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0922	0922	0932		SF	S10E54	3220		
11 Feb 0943 1131 1143 SF N10W25 3214 11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0926	0929	0951		SF	N28W67	3222		
11 Feb 1012 1013 1017 SF S10E43 3217	11 Feb	0929	0935	0940		1N	N21E59	3221		
	11 Feb	0943	1131	1143		SF	N10W25	3214		
11 Feb 1016 1019 1023 SF N21F58 3221	11 Feb	1012	1013	1017		SF	S10E43	3217		
11100 1010 1017 1025 SI 1121E30 3221	11 Feb	1016	1019	1023		SF	N21E58	3221		



Flare List

						Optical	
		Time		X-ray	Imp/	Location	Rgn
Date	Begin	Max	End	Class	Brtns	Lat CMD	#
11 Feb	1022	1028	1035		SF	N06W70	3208
11 Feb	1036	1042	1116		SF	N06W70	3208
11 Feb	1042	1058	1129	M1.0			3220
11 Feb	1048	1051	1055		SF	N28W43	3213
11 Feb	1049	1057	1132		1N	S18E57	3220
11 Feb	1055	1111	1321		1F	N26E18	3216
11 Feb	1055	1059	1101		SF	N28W67	3222
11 Feb	1129	1134	1141	M1.4			3222
11 Feb	1148	1149	1155		SF	N06W70	3208
11 Feb	1149	1150	1156		SF	N28W67	3222
11 Feb	1158	1202	1304		SN	S06E39	3219
11 Feb	1200	1208	1305	M1.5	SF	S11E42	3217
11 Feb	1210	1211	1224		SF	N06W71	3208
11 Feb	1217	1222	1229		SN	N28W67	3222
11 Feb	1218	1223	1228	M1.1			3217
11 Feb	1227	1234	1257	M1.5	SF	N06W71	3208
11 Feb	1228	1229	1238		SF	N19W42	3209
11 Feb	1348	1348	1353		SF	S19E58	3220
11 Feb	1407	1418	1452		SF	N06W72	3208
11 Feb	1413	1414	1417		SF	N29W69	3222
11 Feb	1453	1453	1456		SF	N29W72	3222
11 Feb	1540	1548	1554	X1.1	2B	S08E39	3217
11 Feb	1621	1621	1625		SF	N29W48	3213
11 Feb	1642	1642	1644		SF	N30W76	3222
11 Feb	1709	1713	1728		SF	N30W76	3222
11 Feb	1711	1723	1731	M1.4			3208
11 Feb	1855	1901	1927		SF	N29W47	3213
11 Feb	1939	2001	2011		SF	N29W47	3213
11 Feb	2041	2041	2044		SF	N11W31	3214
11 Feb	2102	2102	2111		SF	N07W76	3208
11 Feb	2113	2121	2139		SF	N07W76	3208
11 Feb	2138	2143	2245		SF	N27W49	3213
11 Feb	2245	2257	2312	C8.7			3217
11 Feb	2314	2320	2324		SF	N08W79	3208
11 Feb	2338	2339	2348		SF	N08W81	3208
12 Feb	0036	0036	0044		SF	N12W34	3214
12 Feb	0147	0200	0205	C7.2			3217
12 Feb	0233	0237	0246	C4.0			3214



Flare List

					(Optical	
		Time		X-ray	Imp/	Location	Rgn
Date	Begin	Max	End	Class	Brtns	Lat CMD	#
12 Feb	0334	0344	0353	C8.8	SF	N11W35	3214
12 Feb	0422	0422	0434		SF	N29W53	3213
12 Feb	0456	0502	0509	C5.0			3222
12 Feb	0500	0519	0546		SF	N11W35	3214
12 Feb	0502	0504	0509		SF	N30W83	3222
12 Feb	0520	0526	0532		SF	N29W53	3213
12 Feb	0524	0541	0602	C9.0	1F	S11E36	3217
12 Feb	0828	0846	0959	M3.1	1B	S09E30	3217
12 Feb	0836	0839	0843		SF	N23E46	3224
12 Feb	0911	0927	0937	M1.4			3217
12 Feb	1323	1334	1344	M1.2			3222
12 Feb	1503	1509	1519	C5.5			
12 Feb	1533	1538	1601	M1.0	SN	S09E26	3217
12 Feb	1717	1724	1737	C6.1	SF	N13E41	3221
12 Feb	1758	1841	1918		SF	N11E52	
12 Feb	1956	2006	2017	C5.6			3222
12 Feb	2254	2301	2310	C3.8			3222



Region Summary

	Location	on	Su	Sunspot Characteristics							Flares								
		Helio	Area	Extent	Spot	Spot	Mag	X	-ray	·		O	ptica	1					
Date	Lat CMD	Lon 1	0 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4				
		.	2207																
		Regio	n 3206																
29 Jan	S22E59	284	10	4	Bxo	4	В												
30 Jan	S22E47	282	40	5	Cso	5	В	1			3								
31 Jan	S22E33	282	30	6	Cao	5	В	1											
01 Feb	S21E19	285	30	4	Bxo	4	В												
02 Feb	S20E05	286	30	3	Bxo	3	В												
03 Feb	S21W08	285	10	3	Axx	1	A												
04 Feb	S21W22	286	plage																
05 Feb	S21W36	287	plage																
06 Feb	S21W50	288	plage																
07 Feb	S21W64	289	plage																
08 Feb	S21W78	290	plage																
								2	0	0	3	0	0	0	0				
Crossed	l West Lim	b.																	
Absolut	te heliograp	hic long	gitude: 2	86															
		Regio	n 3207																
30 Jan	S12E72	257	60	1	Cai	2	В	6											
31 Jan	S11E65	254	130	7	Cao	5	В	4			7								
01 Feb	S11E49	254	90	7	Cao	7	В	2			2								
02 Feb	S12E36	253	110	9	Cao	10	В												
03 Feb	S12E23	254	100	9	Cai	11	В	3			3	1							
04 Feb	S13E10	254	60	8	Cao	10	В	1			1								
05 Feb	S14W04	255	60	7	Bxo	10	В				1								
06 Feb	S14W19	257	10	2	Bxo	3	В												
07 Feb	S14W33	258	plage																
08 Feb	S13W47	259	plage																
09 Feb	S13W61	259	plage																
10 Feb	S13W75	260	plage																
11 Feb	S13W89	261	plage																
								16	0	0	14	1	0	0	0				
Crossod	West Lim	h																	

Crossed West Limb. Absolute heliographic longitude: 255



	Location	on	Su	Flares											
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			О	ptica	1	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Rogi	on 3208												
		O		_											
01 Feb	N16E51	252	10	3	Cro	1	В				1				
02 Feb	N16E39	250	20	2	Cro	1	В								
03 Feb	N16E27	250	10	1	Axx	1	A								
04 Feb	N15E13	251	plage												
05 Feb	N15W01	252	plage								1				
06 Feb	N15W15	253	plage												
07 Feb	N15W29	254	plage												
08 Feb	N15W43	255	plage												
09 Feb	N15W57	255	plage												
10 Feb	N09W66	251	20	3	Cro	5	В	1			9				
11 Feb	N08W79	251	70	6	Dao	8	В	3	3		13	1			
12 Feb	N08W92	251	30	6	Cao	3	В								
								4	3	0	24	1	0	0	0
Still on	Disk.														
Absolut	te heliograp	hic lor	ngitude: 2	.52											
		Dagi	on 3209												
		_													
03 Feb	N18E56	221	40	4	Dao	6	В								
04 Feb	N18E41	223	70	4	Dso	6	В								
05 Feb	N18E26	225	60	7	Dso	6	В								
06 Feb	N18E12	226	30	7	Cro	7	В								
07 Feb	N20W01	226	10	7	Bxo	3	В								
08 Feb	N20W15	223	plage								1				
09 Feb	N20W29	226	plage												
10 Feb	N22W38	223	10	2	Bxo	2	В								
11 Feb	N20W52	224	plage								1				
12 Feb	N20W66	225	plage												
								0	0	0	2	0	0	0	0



	Location	on	Su	inspot C	haracte	eristics		Flares								
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			O	ptica	1		
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4	
		Regi	ion 3210													
03 Feb	S15W05	282	30	5	Cao	5	В									
04 Feb	S15W16	280	30	5	Cao	5	В									
05 Feb	S17W29	280	20	4	Bxo	4	В									
06 Feb	S15W43	281	10	1	Axx	1	A									
07 Feb	S14W56	281	5	1	Axx	1	A									
08 Feb	S14W70	282	10	1	Axx	1	A									
09 Feb	S14W84	282	plage													
								0	0	0	0	0	0	0	0	
Crossed	West Lim	b.														
Absolut	e heliograp	hic lor	ngitude: 2	82												
		Dage	ion 3211													
		_														
04 Feb	S16W29	293	20	3	Cao	5	В	2								
05 Feb	S17W41	292	40	4	Cro	6	В	1			1					
06 Feb	S17W57	295	100	5	Dao	7	В	1								
07 Feb	S16W71	296	50	5	Cao	3	В	2			2					
08 Feb	S16W84	296	10	1	Axx	1	A	1			3					
								7	0	0	6	0	0	0	0	
Crossed	West Lim	b.														
Absolut	e heliograp	hic lor	ngitude: 2	93												
		Regi	ion 3212													
05 Feb	S17W56	307	20	5	Bxo	3	В				1					
06 Feb	S17W70	308	20	4	Cro	5	В	3			2					
07 Feb	S16W84	309	10	7	Bxo	3	В									
								3	0	0	3	0	0	0	0	
Crossed	West Lim	b.														

Crossed West Limb. Absolute heliographic longitude: 307



	Location	on	Su	inspot C	haracte	ristics]	Flares	S			
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			O	ptica	.1	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regio	on 3213												
06 Feb	N29E13	225	10	3	Cri	15	BG	4			4				
00 Feb	N31W01	226	80	<i>7</i>	Dai	9	BG	4	2		2	2			
07 Feb	N31W15	225	290	11	Eki	25	BG	4	3		6	1	1		
09 Feb	N30W28	228	290	13	Ekc	18	BD	7	2		8	2	1		
10 Feb	N30W39	224	450	17	Fki	22	BG	2	4		7	1	1		
11 Feb	N29W51	223	460	16	Fki	31	G	_	•		9	•	•		
12 Feb	N30W64	223	480	17	Fki	25	BG				2				
12100	1,00,,01		.00				20	21	11	0	38	6	2	0	0
Still on	Disk														
	te heliograp	hic lon	gitude: 2	26											
	<i>8</i> ₁		6												
		Regio	on 3214												
06 Feb	N10E33	205	30	5	Dao	7	В				2				
07 Feb	N13E19	206	120	6	Dao	8	В	2			6				
08 Feb	N12E06	205	250	9	Dho	9	В				2				
09 Feb	N11W07	205	280	9	Dho	13	В				1				
10 Feb	N11W20	205	300	9	Dho	11	В	1			4				
11 Feb	N12W33	205	380	9	Dki	16	BG	1			9				
12 Feb	N12W46	205	390	10	Dki	9	В	2			3				
								6	0	0	27	0	0	0	0
Still on															
Absolut	te heliograp	hic lon	gitude: 2	05											
		Regio	on 3215												
06 Eab	NO1E57	_		2	Dwo	2	D								
06 Feb 07 Feb	N21E57 N23E43	181 182	10 10	3 2	Bxo Axx	3 2	В								
07 Feb	N23E43 N22E29	179	20	1	Axx	2	A A				1				
09 Feb	N22E29 N22E16	179	20	5	Cro	3	B				1				
10 Feb	N22E10 N22E03	182	10	1	Axx	1	A								
11 Feb	N22W10	182	plage	1	ΠΛΛ	1	А								
12 Feb	N22W10	183	plage												
12100	11221127	103	prage					0	0	0	1	0	0	0	0



	Locati	on	Sunspot Characteristics					Flares								
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			0	ptica	1		
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4	
		Regi	ion 3216													
06 Feb	N24E67	171	40	3	Hsx	1	A									
07 Feb	N27E53	172	140	2	Hsx	1	A									
08 Feb	N26E40	169	120	3	Hsx	2	A									
09 Feb	N25E31	167	150	7	Dao	5	В				1					
10 Feb	N24E19	166	140	2	Hsx	3	A									
11 Feb	N24E06	166	140	3	Hax	2	A					1				
12 Feb	N24W08	167	140	3	Hax	3	A									
								0	0	0	1	1	0	0	0	
Still on																
Absolut	te heliograp	ohic lor	ngitude: 1	66												
		Regi	on 3217													
08 Feb	S09E72	140	280	4	Dko	9	В	1	1			1				
09 Feb	S10E63	135	260	10	Dkc	9	В	1	4		4	•				
10 Feb	S11E49	136	380	9	Dki	11	BGD	3	•		7	1				
11 Feb	S09E36	135	380	11	Eki	14	BGD	2	2	1	6	-	1			
12 Feb	S12E22	137	400	10	Dki	19	BG	2	3		1	2	_			
								9	10	1	18	4	1	0	0	
Still on	Disk.															
	te heliograp	ohic lor	ngitude: 1	37												
		Regi	ion 3218													
08 Feb	N12E62	150	20	2	Bxo	2	В									
09 Feb	N12E49	149	20	5	Cro	3	В									
10 Feb	N11E35	150	10	2	Bxo	2	В									
11 Feb	N11E21	151	10	1	Axx	1	A									
12 Feb	N11E05	153	10	1	Hrx	1	A									
12100	111200	100	10	-		-		0	0	0	0	0	0	0	0	
Still on	Disk															
	te heliograp	ohic lor	ngitude: 1	53												
		Regi	ion 3219													
00 E 1	017074	_		2	D	~	ъ									
09 Feb	S17E54	144	10	3	Bxo	5	В	1			1					
10 Feb	S07E42	143	30	5	Cro	6	В	1			1					
11 Feb	S07E29	143	30	3	Cro	4	В				1					
12 Feb	S07E13	146	20	1	Hrx	3	A	1	0	Λ	2	Λ	0	Λ	Λ	
G.:11	D: 1							1	0	0	2	0	0	0	0	



	Location	on	Sunspot Characteristics						Flares								
		Helio		Extent			Mag	X	-ray			О	ptica	ıl			
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4		
		Regi	ion 3220														
09 Feb	S15E77	121	80	6	Dso	2	В										
10 Feb	S15E64	121	130	6	Cso	3	В		1		1	1					
11 Feb	S14E51	121	150	4	Hsx	2	A		1		3	1					
12 Feb	S15E37	122	150	4	Cso	2	В	0	2	0	4	2	0	0	0		
Still on	Disk.							U	2	U	4	2	U	U	U		
	e heliograp	hic lo	ngitude: 1	22													
		Reg	ion 3221														
09 Feb	N14E75	123	80	8	Hax	2	A										
10 Feb	N16E62	123	100	5	Hax	2	A										
11 Feb	N16E48	124	50	3	Hax	2	A				2	1					
12 Feb	N15E34	125	40	3	Hax	3	A	1			1						
								1	0	0	3	1	0	0	0		
Still on		hia la	agituda. 1	25													
Absolut	e heliograp	ine ioi	igitude. 1	23													
		Regi	ion 3222														
10 Feb	N35W64	249	30	4	Cro	2	В										
11 Feb	N29W79	251	30	6	Dao	4	В		1		11						
12 Feb	N30W92	251	40	7	Dao	3	В	3	1	•	1			•			
Still on	Dick							3	2	0	12	0	0	0	0		
	e heliograp	hic lo	ngitude: 2	49													
		Reg	ion 3223														
11 Feb	N19E31	141	10	4	Bxo	3	В										
12 Feb	N17E16	143	plage	4	DAU	3	Ъ										
12100	1(1/210	1.0	Pro-Se					0	0	0	0	0	0	0	0		
Still on																	
Absolut	e heliograp	hic lo	ngitude: 1	43													
		Reg	ion 3224														
11 Feb	N23E50	122	10	5	Cro	2	В										
12 Feb	N22E35	124	10	1	Bxo	3	В				1						
Still on	Diek							0	0	0	1	0	0	0	0		
	e heliograp	hic lo	ngitude: 1	24													



	Location	on	Sunspot Characteristics						Flares									
		Helio	Area	Extent	Spot	Spot	Mag	X-ray				O	ptica	ıl				
Date	Lat CMD	Lon 10	0 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4			
12 Feb	S22E06	153	20	3	Cro	3	В	0	0	0	0	0	0	0	0			



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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