Solar activity was generally at R1 (Minor) levels until 02 Jul when R3 (Strong) levels were reached. Weak M-class activity was observed from Regions 3340 (N20, L=234, class/area Eki/350 on 26 Jun) on 26-28 Jun, Region 3354 (N15, L=168, class/area Fkc/1150 on 02 Jul) on 29 Jun and Region 3359 (S22, L=068, class/area Dai/060 on 02 Jul) on 01-02 Jul. Region 3354 produced an X1 flare at 02/2314 UTC. No Earth-directed CMEs were observed during the period.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at high levels on 27 Jun through 02 Jul with a maximum flux of 3,510 pfu observed at 28/1555 UTC.

Geomagnetic field activity was at mostly quiet to isolated unsettled levels throughout the period. A brief interval of active levels were observed the later half of 29 Jun due to a solar sector crossing from a negative to a positive sector.

Space Weather Outlook 03 July - 29 July 2023

Solar activity is expected to be at low to R1-R2 (Minor-Moderate) levels throughout the forecast period.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to reach high levels on 03-06 Jul and 14-29 Jul due to CH HSS influence.

Geomagnetic field activity is expected to reach unsettled levels on 04-05 Jul, unsettled to active levels on 09-10 Jul with G1-G2 (Minor-Moderate) levels likely on 12-13 Jul due to recurrent CH HSS activity. Quiet to unsettled levels are expected on 14-29 Jul.



Daily Solar Data

	Ra	dio Sur	n Sunspot X-ray			Flares								
	Fl	ux spo	t Area	Background		X-ra	ıy		0	ptica	al			
Date	10.7	cm No	. (10 ⁻⁶ hemi.)) Flux	C	M	X	S	1	2	3	4		
26 June	158	158	720	B8.9	13	1	0	14	3	0	0	0		
27 June	151	141	900	B9.4	15	1	0	21	1	1	0	0		
28 June	155	141	1160	B9.8	9	1	0	14	0	1	0	0		
29 June	162	112	1060	C1.0	8	1	0	6	0	1	0	0		
30 June	159	87	930	C1.2	8	0	0	5	1	0	0	0		
01 July	166	119	1290	C1.4	9	1	0	14	0	0	0	0		
02 July	170	126	1350	C1.4	8	1	1	17	0	0	0	0		

Daily Particle Data

		on Fluence /cm ² -day-sr)	Electron Fluence (electrons/cm ² -day -sr)
Date	>1 MeV	>10 MeV	>2MeV
26 June	4.6e+04	2.1e+04	1.7e+07
27 June	3.7e+04	2.1e+04	6.2e+07
28 June	3.5e+04	2.2e+04	1.1e+08
29 June	1.2e+05	2.1e+04	6.2e+07
30 June	8.9e + 04	2.1e+04	9.4e+07
01 July	6.4e + 04	2.1e+04	1.3e+08
02 July	8.2e+04	2.1e+04	1.2e+08

Daily Geomagnetic Data

		Middle Latitude		High Latitude	Estimated				
		Fredericksburg		College	Planetary				
Date		A K-indices	A	K-indices	A	K-indices			
26 June	11	2-2-2-3-3-3-2-3	24	3-3-3-4-4-6-2-2	11	3-2-2-3-3-2-3			
27 June	7	2-2-2-2-2-2	17	3-3-3-5-3-2-2	8	2-2-3-2-2-2-2			
28 June	8	2-2-2-3-2-2-2	9	2-3-2-4-2-1-1-1	8	2-2-2-2-1-2-2			
29 June	13	2-3-3-3-2-3-3	23	3-5-3-5-3-3-3	17	3-3-3-3-2-4-4-4			
30 June	8	3-1-3-2-2-1-1	12	3-2-3-4-4-2-0-0	8	3-2-2-3-2-1-0			
01 July	6	2-1-1-2-2-1-2-2	3	2-2-0-0-1-0-1-2	5	2-2-1-1-1-1-2			
02 July	8	1-2-1-3-3-2-2-1	5	1-1-1-2-3-2-0-0	5	1-1-2-2-2-1-1-1			

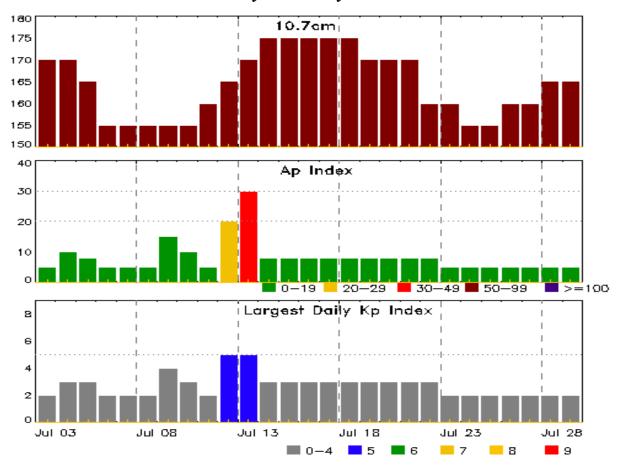


Alerts and Warnings Issued

	There's with the state of the s	
Date & Time		Date & Time
of Issue UTC	Type of Alert or Warning	of Event UTC
27 Jun 1308	ALERT: Electron 2MeV Integral Flux >= 1000pf	u 27/1250
28 Jun 0338	ALERT: Type II Radio Emission	28/0222
28 Jun 1047	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	27/1250
29 Jun 0540	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	27/1250
29 Jun 0543	WARNING: Geomagnetic $K = 4$	29/0543 - 1200
29 Jun 1126	EXTENDED WARNING: Geomagnetic K = 4	4 29/0543 - 1500
29 Jun 1714	WARNING: Geomagnetic $K = 4$	29/1715 - 2100
29 Jun 1732	ALERT: Geomagnetic $K = 4$	29/1719
29 Jun 1908	EXTENDED WARNING: Geomagnetic K = 4	4 29/1715 - 2359
30 Jun 1224	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	27/1250
01 Jul 0702	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	27/1250
02 Jul 0307	ALERT: Type II Radio Emission	02/0243
02 Jul 0540	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	27/1250
02 Jul 2309	ALERT: X-ray Flux exceeded M5	02/2307
02 Jul 2333	SUMMARY: 10cm Radio Burst	02/2308 - 2313



Twenty-seven Day Outlook



	Radio Flux	Planetary	Largest		Radio Flux	Planetary	Largest
Date	10.7cm	A Index	Kp Index	Date	10.7cm	-	Kp Index
00.7.1	150	_	•	45.7.1	155	0	2
03 Jul	170	5	2	17 Jul	175	8	3
04	170	10	3	18	175	8	3
05	165	8	3	19	170	8	3
06	155	5	2	20	170	8	3
07	155	5	2	21	170	8	3
08	155	5	2	22	160	8	3
09	155	15	4	23	160	5	2
10	155	10	3	24	155	5	2
11	160	5	2	25	155	5	2
12	165	20	5	26	160	5	2
13	170	30	5	27	160	5	2
14	175	8	3	28	165	5	2
15	175	8	3	29	165	5	2
16	175	8	3				



Energetic Events

		Time			ray	Optio	cal Informat	ion	F	Peak	Sweep Free		
			Half		Integ	Imp/	Location	Rgn	Rad	io Flux	Inte	ensity	
Date	Begin	Max	Max	Class	Flux	Brtns	Lat CMD	#	245	2695	II	IV	
26 Jun	1608	1622	1634	M1.6	0.01	2 1N	N23W3	8 334	0				
27 Jun	1457	1514	1519	M1.2	0.00	4 SF	N14E1	7 334	0				
28 Jun	0826	0844	0859	M1.9	0.02	0 2N	N20W6	2 334	0				
29 Jun	1400	1415	1423	M3.8	0.02	2 2B	N17W1	4 335	4				
01 Jul	2207	2223	2231	M1.1	0.00	9 SN	S20E5	5 335	9	410			
02 Jul	0229	0235	0240	M2.0	0.00°	7		335	9 4	2000		3	
02 Jul	2254	2314	2358	X1.0	0.26	0		335	4		200		

Flare List

					(Optical	
	-	Time		X-ray	Imp/	Location	Rgn
Date	Begin	Max	End	Class	Brtns	Lat CMD	#
26 Jun	0047	0056	0105	C2.1	SF	S20W33	3339
26 Jun	0131	0136	0142	C2.2	SF	N25W30	3340
26 Jun	0219	0230	0247	C2.1	SF	N23W30	3340
26 Jun	0349	0402	0426	C7.0	1F	N23W31	3340
26 Jun	0437	0438	0442		SF	S20W37	3339
26 Jun	0509	0513	0518	C1.7	SF	S12W11	3341
26 Jun	0535	0630	1317	C3.0	1F	N22W34	3340
26 Jun	0823	0830	0837	C1.2			
26 Jun	1143	1152	1211	C2.9	SF	N23E27	3351
26 Jun	1157	1204	1214		SF	N21W69	3337
26 Jun	1213	1225	1231	C7.4			3340
26 Jun	1430	1430	1442		SF	N23W38	3340
26 Jun	1608	1622	1634	M1.6	1N	N23W38	3340
26 Jun	1721	1726	1736		SF	N23W39	3340
26 Jun	1749	1750	1759		SF	N23W39	3340
26 Jun	1946	1956	2000	C3.4	SF	N25W40	3340
26 Jun	2029	2031	2037		SF	N25W40	3340
26 Jun	2216	2221	2226	C2.3	SF	N25W40	3340
26 Jun	2312	2320	2325	C3.6			
26 Jun	2340	2350	A2359	C2.2	SF	N24W43	3340
27 Jun	0000	0000	0047		SN	N26W42	3340
27 Jun	0119	0141	0201	C2.9	SF	N24W43	3340
27 Jun	0324	0330	0350	C1.4	SF	N15E25	3354
27 Jun	0515	0528	0546		SF	N22W46	3340



Flare List

Date Begin Max End X-ray Class Imp/ Britis Lac CMD # 27 Jun 0557 0608 0613 C2.9 SF N1SE23 3354 27 Jun 0705 0715 0722 C5.3 SN N20W79 3337 27 Jun 0806 0806 0810 SF S20W19 3341 27 Jun 0827 0830 0833 SF N22W46 3340 27 Jun 09911 0919 0924 C1.8 SF N22W46 3340 27 Jun 09918 0941 0952 SF N22W46 3340 27 Jun 1138 1139 1143 SF N22W47 3340 27 Jun 1453 1512 1639 BR 22W47 3340 27 Jun 1455 1514 1519 M1.2 SF N14E17 3340 27 Jun 1557 1603 1607 C2.0 C2.0 SF					Optical							
27 Jun 0557 0608 0613 C2.9 SF N15E23 3354 27 Jun 0705 0715 0722 C5.3 SN N20W79 3337 27 Jun 0806 0806 0810 SF N22W46 3340 27 Jun 0827 0830 0833 SF N22W46 3340 27 Jun 0911 0919 0924 C1.8 SF N22W46 3340 27 Jun 0938 0941 0952 SF N22W46 3340 27 Jun 1138 1139 1143 SF N22W47 3340 27 Jun 1457 1514 1519 M1.2 SF N22W49 3340 27 Jun 1453 1512 1639 ZB N22W49 3340 27 Jun 1457 1514 1519 M1.2 SF N14E17 3340 27 Jun 1557 1603 1607 C2.0 27 Jun 1630 1651 1704 C5.6 IN S16W23 3341 27 Jun 1732 1734 1740 SF S13W26 3341 27 Jun 1732 1734 1740 SF S13W26 3341 27 Jun 1835 1835 1840 C1.7 SF N26W53 3340 27 Jun 1835 1835 1840 C1.7 SF N26W53 3340 27 Jun 1835 1835 1840 C1.7 SF N26W53 3340 27 Jun 1927 1938 1939 C1.8 SF N15E18 3354 27 Jun 2010 2018 2022 C2.0 SF N21W59 3340 27 Jun 2111 2119 2128 C1.9 SF N15E15 3354 27 Jun 2317 2324 2331 C1.7 SF N26W53 3351 28 Jun 022 0032 0039 C1.4 SF N15E15 3354 28 Jun 0422 0422 0424 SF N16E03 3354 28 Jun 0402 0409 0415 C1.6 SF N16E03 3354 28 Jun 0500 0549 0556 SF N12E11 3354 28 Jun 0603 0603 0613 SF N12E11 3354 28 Jun 0603 0603 0613 SF N12E11 3354 28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0620 0630 0630 0613 SF N12E11 3354 28 Jun 0603 0603 0613 SF N12E11 3354 28 Jun 0620 0630 0630 0613 SF N12E11 3354 28 Jun 0620 0630 0630 0613 SF N12E11 3354 28 Jun 0621 0622 0825 SF N12E11 3354 28 Jun 0621 0622 0825 SF N12E11 3354 28 Jun 0621 0622 0825 SF N12E10 3354 28 Jun 0620 0634 0635 0638 SF N12E10 3354 28 Jun 0621 0082 0825 SF N12E10 3354 28 Jun 0621 0082 0825 SF N12E10 3354 28 Jun 0620 0634 0635 0638 SF N12E10 3354 28 Jun 0620 0647 0648 0702 SF N12E10 3354 28 Jun 0620 0647 0648 0702 SF N12E10 3354 28 Jun 0620 0647 0648 0702 SF N12E10 3354 28 Jun 0620 0647 0648 0702 SF N12E10 3354 28 Jun 0620 0647 0648 0702 SF N12E10 3354 28 Jun 0620 0647 0648 0702 SF N12E10 3354 28 Jun 0620 0647 0648 0702 SF N12E10 3354 28 Jun 0620 0647 0648 0702 SF N12E10 3354 28 Jun 0620 0647 0648 0702 SF SF N12E10 3354 28 Jun 0661 0645 0645			Time		X-ray	Imp/	Location	Rgn				
27 Jun 0705 0715 0722 C5.3 SN N20W79 3337 27 Jun 0738 0739 0747 SF S20W19 3341 27 Jun 0806 0806 0810 SF N22W46 3340 27 Jun 0921 0930 0833 SF N22W46 3340 27 Jun 0911 0919 0924 C1.8 SF N22W46 3340 27 Jun 0938 0941 0952 SF N22W47 3340 27 Jun 1138 1139 1143 SF N22W47 3340 27 Jun 1453 1512 1639 2B N22W49 3340 27 Jun 1457 1514 1519 M1.2 SF N14E17 3340 27 Jun 1457 1603 1607 C2.0 2B N22W49 3340 27 Jun 1732 1734 1740 C5.6 IN SI WEE 3341	Date	Begin	Max	End	Class	Brtns	Lat CMD	#				
27 Jun 0738 0739 0747 SF \$20W19 3341 27 Jun 0806 0806 0810 SF N22W46 3340 27 Jun 0827 0830 0833 SF N22W46 3340 27 Jun 0911 0919 0924 C1.8 SF N22W46 3340 27 Jun 0938 0941 0952 SF N21W48 3340 27 Jun 1138 1139 1143 SF N22W47 3340 27 Jun 1453 1512 1639 2B N22W49 3340 27 Jun 1457 1514 1519 M1.2 SF N14E17 3340 27 Jun 1453 1512 1639 2B N22W49 3340 27 Jun 1453 1514 1519 M1.2 SF N14E17 3340 27 Jun 1537 1603 1607 C2.0 SF N13E18 3341 27 Jun <td>27 Jun</td> <td>0557</td> <td>0608</td> <td>0613</td> <td>C2.9</td> <td>SF</td> <td>N15E23</td> <td>3354</td>	27 Jun	0557	0608	0613	C2.9	SF	N15E23	3354				
27 Jun 0806 0806 0810 SF N22W46 3340 27 Jun 0827 0830 0833 SF N22W46 3340 27 Jun 0911 0919 0924 C1.8 SF N22W46 3340 27 Jun 0938 0941 0952 SF N21W48 3340 27 Jun 1138 1139 1143 SF N22W49 3340 27 Jun 1453 1512 1639 2B N22W49 3340 27 Jun 1457 1514 1519 M1.2 SF N14E17 3340 27 Jun 1457 1514 1519 M1.2 SF N14E17 3340 27 Jun 1630 1661 1704 C5.6 1N S16W23 3341 27 Jun 1732 1734 1740 SF S13W26 3341 27 Jun 1751 1755 181 C2.6 SF N16E14 3354	27 Jun	0705	0715	0722	C5.3	SN	N20W79	3337				
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27 Jun 0911 0919 0924 C1.8 SF N22W46 3340 27 Jun 0938 0941 0952 SF N21W48 3340 27 Jun 1138 1139 1143 SF N22W47 3340 27 Jun 1453 1512 1639 2B N22W49 3340 27 Jun 1457 1514 1519 M1.2 SF N14E17 3340 27 Jun 1457 1603 1607 C2.0 T T 27 Jun 1630 1651 1704 C5.6 IN S16W23 3341 27 Jun 1732 1734 1740 SF S13W26 3341 27 Jun 1751 1755 1811 C2.6 SF N16E14 3354 27 Jun 1835 1840 C1.7 SF N26W53 3340 27 Jun 1927 1938 1939 C1.8 SF N15E15 3354	27 Jun	0806	0806	0810		SF	N22W46	3340				
27 Jun 0938 0941 0952 SF N21W48 3340 27 Jun 1138 1139 1143 SF N22W47 3340 27 Jun 1453 1512 1639 2B N22W49 3340 27 Jun 1457 1514 1519 M1.2 SF N14E17 3340 27 Jun 1557 1603 1607 C2.0 27 170 1557 1603 1607 C2.0 27 170 1630 1651 1704 C5.6 1N S16W23 3341 3341 27 170 1732 1734 1740 SF S13W26 3341	27 Jun	0827	0830	0833		SF	N22W46	3340				
27 Jun 1138 1139 1143 SF N22W47 3340 27 Jun 1453 1512 1639 2B N22W49 3340 27 Jun 1457 1514 1519 M1.2 SF N14E17 3340 27 Jun 1557 1603 1607 C2.0 C2.0 C2.3 27 Jun 1630 1651 1704 C5.6 1N S16W23 3341 27 Jun 1732 1734 1740 SF S13W26 3341 27 Jun 1751 1755 1811 C2.6 SF N16E14 3354 27 Jun 1835 1835 1840 C1.7 SF N26W53 3340 27 Jun 1927 1938 1939 C1.8 SF N15E18 3354 27 Jun 2010 2018 2022 C2.0 SF N15E18 3354 27 Jun 2111 2119 2128 C1.9 SF N15E15 <td>27 Jun</td> <td>0911</td> <td>0919</td> <td>0924</td> <td>C1.8</td> <td>SF</td> <td>N22W46</td> <td>3340</td>	27 Jun	0911	0919	0924	C1.8	SF	N22W46	3340				
27 Jun 1453 1512 1639 2B N22W49 3340 27 Jun 1457 1514 1519 M1.2 SF N14E17 3340 27 Jun 1557 1603 1607 C2.0 C2.0 C2.0 27 Jun 1630 1651 1704 C5.6 IN S16W23 3341 27 Jun 1732 1734 1740 SF S13W26 3341 27 Jun 1743 1746 1750 C2.3 C2.3 C7 27 Jun 1751 1755 1811 C2.6 SF N16E14 3354 27 Jun 1835 1835 1840 C1.7 SF N26W53 3340 27 Jun 1927 1938 1939 C1.8 SF N15E18 3354 27 Jun 2010 2018 2022 C2.0 SF N15E18 3354 27 Jun 2111 2119 2128 C1.9 SF N15E15	27 Jun	0938	0941	0952		SF	N21W48	3340				
27 Jun 1457 1514 1519 M1.2 SF N14E17 3340 27 Jun 1557 1603 1607 C2.0 C2.0 27 Jun 1630 1651 1704 C5.6 1N S16W23 3341 27 Jun 1732 1734 1740 SF S13W26 3341 27 Jun 1743 1746 1750 C2.3 C2.3 27 Jun 1751 1755 1811 C2.6 SF N16E14 3354 27 Jun 1835 1835 1840 C1.7 SF N26W53 3340 27 Jun 1927 1938 1939 C1.8 SF N15E18 3354 27 Jun 2010 2018 2022 C2.0 SF N15E18 3354 27 Jun 2111 2119 2128 C1.9 SF N15E15 3354 27 Jun 2317 2324 2331 C1.7 SF N24E09 3351 <td>27 Jun</td> <td>1138</td> <td>1139</td> <td>1143</td> <td></td> <td>SF</td> <td>N22W47</td> <td>3340</td>	27 Jun	1138	1139	1143		SF	N22W47	3340				
27 Jun 1557 1603 1607 C2.0 27 Jun 1630 1651 1704 C5.6 1N S16W23 3341 27 Jun 1732 1734 1740 SF S13W26 3341 27 Jun 1743 1746 1750 C2.3 TT 27 Jun 1751 1755 1811 C2.6 SF N16E14 3354 27 Jun 1835 1835 1840 C1.7 SF N26W53 3340 27 Jun 1927 1938 1939 C1.8 SF N15E18 3354 27 Jun 2010 2018 2022 C2.0 SF N21W59 3340 27 Jun 2111 2119 2128 C1.9 SF N15E15 3354 27 Jun 2222 2233 2248 C4.4 SF N15E15 3354 27 Jun 2317 2324 2331 C1.7 3351 3354 27 Jun	27 Jun	1453	1512	1639		2B	N22W49	3340				
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27 Jun 1732 1734 1740 SF S13W26 3341 27 Jun 1743 1746 1750 C2.3 27 Jun 1751 1755 1811 C2.6 SF N16E14 3354 27 Jun 1835 1835 1840 C1.7 SF N26W53 3340 27 Jun 1927 1938 1939 C1.8 SF N15E18 3354 27 Jun 2010 2018 2022 C2.0 SF N21W59 3340 27 Jun 2010 2018 2022 C2.0 SF N15E15 3354 27 Jun 2111 2119 2128 C1.9 SF N15E15 3354 27 Jun 2317 2324 2331 C1.7 3351 3354 27 Jun 2339 2324 2349 SF N24E09 3351 28 Jun 0029 0032 0039 C1.4 3354 28 Jun 0328 <td>27 Jun</td> <td>1557</td> <td>1603</td> <td>1607</td> <td>C2.0</td> <td></td> <td></td> <td></td>	27 Jun	1557	1603	1607	C2.0							
27 Jun 1743 1746 1750 C2.3 27 Jun 1751 1755 1811 C2.6 SF N16E14 3354 27 Jun 1835 1835 1840 C1.7 SF N26W53 3340 27 Jun 1927 1938 1939 C1.8 SF N15E18 3354 27 Jun 2010 2018 2022 C2.0 SF N21W59 3340 27 Jun 2010 2018 2022 C2.0 SF N12W59 3340 27 Jun 2111 2119 2128 C1.9 SF N15E15 3354 27 Jun 2212 2233 2248 C4.4 SF N15E15 3354 27 Jun 2317 2324 2331 C1.7 3351 3354 27 Jun 2339 2324 2349 SF N24E09 3351 28 Jun 0029 0032 0039 C1.4 3354 3354	27 Jun	1630	1651	1704	C5.6	1N	S16W23	3341				
27 Jun 1751 1755 1811 C2.6 SF N16E14 3354 27 Jun 1835 1835 1840 C1.7 SF N26W53 3340 27 Jun 1927 1938 1939 C1.8 SF N15E18 3354 27 Jun 2010 2018 2022 C2.0 SF N21W59 3340 27 Jun 2111 2119 2128 C1.9 SF N15E15 3354 27 Jun 2222 2233 2248 C4.4 SF N15E15 3354 27 Jun 2317 2324 2331 C1.7 3351 3351 27 Jun 2339 2324 2349 SF N24E09 3351 28 Jun 0029 0032 0039 C1.4 3354 28 Jun 0328 0335 0344 C1.3 SF N14E11 3354 28 Jun 0402 0409 0415 C1.6 SF N14E11 <td>27 Jun</td> <td>1732</td> <td>1734</td> <td>1740</td> <td></td> <td>SF</td> <td>S13W26</td> <td>3341</td>	27 Jun	1732	1734	1740		SF	S13W26	3341				
27 Jun 1835 1835 1840 C1.7 SF N26W53 3340 27 Jun 1927 1938 1939 C1.8 SF N15E18 3354 27 Jun 2010 2018 2022 C2.0 SF N21W59 3340 27 Jun 2111 2119 2128 C1.9 SF N15E15 3354 27 Jun 2222 2233 2248 C4.4 SF N15E15 3354 27 Jun 2317 2324 2331 C1.7 3351 3351 27 Jun 2339 2324 2349 SF N24E09 3351 28 Jun 0029 0032 0039 C1.4 3354 28 Jun 00214 0223 0233 C3.3 28 Jun 0402 0409 0415 C1.6 3354 28 Jun 0402 0424 SF N14E11 3354 28 Jun 0603 0603 0613 SF	27 Jun	1743	1746	1750	C2.3							
27 Jun 1927 1938 1939 C1.8 SF N15E18 3354 27 Jun 2010 2018 2022 C2.0 SF N21W59 3340 27 Jun 2111 2119 2128 C1.9 SF N15E15 3354 27 Jun 2222 2233 2248 C4.4 SF N15E15 3354 27 Jun 2317 2324 2331 C1.7 3351 3351 27 Jun 2339 2324 2349 SF N24E09 3351 28 Jun 0029 0032 0039 C1.4 3354 28 Jun 00214 0223 0233 C3.3 28 Jun 0328 0335 0344 C1.3 SF N14E11 3354 28 Jun 0402 0409 0415 C1.6 SF N14E11 3354 28 Jun 0500 0549 0556 SF N14E01 3354 28 Jun 0603 <td>27 Jun</td> <td>1751</td> <td>1755</td> <td>1811</td> <td>C2.6</td> <td>SF</td> <td>N16E14</td> <td>3354</td>	27 Jun	1751	1755	1811	C2.6	SF	N16E14	3354				
27 Jun 2010 2018 2022 C2.0 SF N21W59 3340 27 Jun 2111 2119 2128 C1.9 SF N15E15 3354 27 Jun 2222 2233 2248 C4.4 SF N15E15 3354 27 Jun 2317 2324 2331 C1.7 3351 27 Jun 2339 2324 2349 SF N24E09 3351 28 Jun 0029 0032 0039 C1.4 3354 3354 28 Jun 00214 0223 0233 C3.3 3354 3354 28 Jun 0328 0335 0344 C1.3 SF N14E11 3354 28 Jun 0402 0409 0415 C1.6 3354 3354 28 Jun 0402 0422 0424 SF N14E11 3354 28 Jun 0500 0549 0556 SF N13E09 3354 28 Jun 0603 <td>27 Jun</td> <td>1835</td> <td>1835</td> <td>1840</td> <td>C1.7</td> <td>SF</td> <td>N26W53</td> <td>3340</td>	27 Jun	1835	1835	1840	C1.7	SF	N26W53	3340				
27 Jun 2111 2119 2128 C1.9 SF N15E15 3354 27 Jun 2222 2233 2248 C4.4 SF N15E15 3354 27 Jun 2317 2324 2331 C1.7 SF N24E09 3351 27 Jun 2339 2324 2349 SF N24E09 3351 28 Jun 0029 0032 0039 C1.4 3354 28 Jun 0214 0223 0233 C3.3 28 Jun 0328 0335 0344 C1.3 SF N14E11 3354 28 Jun 0402 0409 0415 C1.6 3354 28 Jun 0402 0424 SF N14E11 3354 28 Jun 0500 0549 0556 SF N13E09 3354 28 Jun 0603 0603 0613 SF N16E03 3354 28 Jun 0647 0648 0702 SF N12E10 <td>27 Jun</td> <td>1927</td> <td>1938</td> <td>1939</td> <td>C1.8</td> <td>SF</td> <td>N15E18</td> <td>3354</td>	27 Jun	1927	1938	1939	C1.8	SF	N15E18	3354				
27 Jun 2222 2233 2248 C4.4 SF N15E15 3354 27 Jun 2317 2324 2331 C1.7 SF N24E09 3351 27 Jun 2339 2324 2349 SF N24E09 3351 28 Jun 0029 0032 0039 C1.4 3354 28 Jun 0214 0223 0233 C3.3 28 Jun 0328 0335 0344 C1.3 SF N14E11 3354 28 Jun 0402 0409 0415 C1.6 3354 28 Jun 0402 0422 0424 SF N14E11 3354 28 Jun 0500 0549 0556 SF N13E09 3354 28 Jun 0603 0603 0613 SF N16E03 3354 28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0826 0844 0859 M1.9 2N	27 Jun	2010	2018	2022	C2.0	SF	N21W59	3340				
27 Jun 2317 2324 2331 C1.7 3351 27 Jun 2339 2324 2349 SF N24E09 3351 28 Jun 0029 0032 0039 C1.4 3354 28 Jun 0214 0223 0233 C3.3 28 Jun 0328 0335 0344 C1.3 SF N14E11 3354 28 Jun 0402 0409 0415 C1.6 3354 28 Jun 0422 0424 SF N14E11 3354 28 Jun 0500 0549 0556 SF N13E09 3354 28 Jun 0603 0603 0613 SF N16E03 3354 28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0821 U0822 0825 SF N12E10 3354 28 Jun 0826 0844 0859 M1.9 2N N20W62 3340 28 Jun <td>27 Jun</td> <td>2111</td> <td>2119</td> <td>2128</td> <td>C1.9</td> <td>SF</td> <td>N15E15</td> <td>3354</td>	27 Jun	2111	2119	2128	C1.9	SF	N15E15	3354				
27 Jun 2339 2324 2349 SF N24E09 3351 28 Jun 0029 0032 0039 C1.4 3354 28 Jun 0214 0223 0233 C3.3 28 Jun 0328 0335 0344 C1.3 SF N14E11 3354 28 Jun 0402 0409 0415 C1.6 3354 28 Jun 0422 0424 SF N14E11 3354 28 Jun 0500 0549 0556 SF N13E09 3354 28 Jun 0603 0603 0613 SF N16E03 3354 28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0821 U0822 0825 SF N12E10 3354 28 Jun 0826 0844 0859 M1.9 2N N20W62 3340 28 Jun 0916 0916 0919 SF N12E10 3354	27 Jun	2222	2233	2248	C4.4	SF	N15E15	3354				
28 Jun 0029 0032 0039 C1.4 3354 28 Jun 0214 0223 0233 C3.3 28 Jun 0328 0335 0344 C1.3 SF N14E11 3354 28 Jun 0402 0409 0415 C1.6 3354 28 Jun 0422 0422 0424 SF N14E11 3354 28 Jun 0500 0549 0556 SF N13E09 3354 28 Jun 0603 0603 0613 SF N16E03 3354 28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0647 0648 0702 SF N12E10 3354 28 Jun 0826 0844 0859 M1.9 2N N20W62 3340 28 Jun 0916 0916 0919 SF N12E10 3354 28 Jun 1331 1332 1338 SF N12E09 3354 <td>27 Jun</td> <td>2317</td> <td>2324</td> <td>2331</td> <td>C1.7</td> <td></td> <td></td> <td>3351</td>	27 Jun	2317	2324	2331	C1.7			3351				
28 Jun 0214 0223 0233 C3.3 28 Jun 0328 0335 0344 C1.3 SF N14E11 3354 28 Jun 0402 0409 0415 C1.6 3354 28 Jun 0422 0422 0424 SF N14E11 3354 28 Jun 0500 0549 0556 SF N13E09 3354 28 Jun 0603 0603 0613 SF N16E03 3354 28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0647 0648 0702 SF N12E10 3354 28 Jun 0826 0844 0859 M1.9 2N N20W62 3340 28 Jun 0916 0919 SF N12E10 3354 28 Jun 1331 1332 1338 SF N12E09 3354 28 Jun 1506 1507 1512 SF S22W36 3341 <td>27 Jun</td> <td>2339</td> <td>2324</td> <td>2349</td> <td></td> <td>SF</td> <td>N24E09</td> <td>3351</td>	27 Jun	2339	2324	2349		SF	N24E09	3351				
28 Jun 0328 0335 0344 C1.3 SF N14E11 3354 28 Jun 0402 0409 0415 C1.6 3354 28 Jun 0422 0422 0424 SF N14E11 3354 28 Jun 0500 0549 0556 SF N13E09 3354 28 Jun 0603 0603 0613 SF N16E03 3354 28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0647 0648 0702 SF N12E11 3354 28 Jun 0821 U0822 0825 SF N12E10 3354 28 Jun 0916 0919 SF N12E10 3354 28 Jun 0959 1000 1003 SF N12E09 3354 28 Jun 1331 1332 1338 SF N14E05 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0029	0032	0039	C1.4			3354				
28 Jun 0402 0409 0415 C1.6 3354 28 Jun 0422 0422 0424 SF N14E11 3354 28 Jun 0500 0549 0556 SF N13E09 3354 28 Jun 0603 0603 0613 SF N16E03 3354 28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0647 0648 0702 SF N12E11 3354 28 Jun 0821 U0822 0825 SF N12E10 3354 28 Jun 0826 0844 0859 M1.9 2N N20W62 3340 28 Jun 0916 0916 0919 SF N12E10 3354 28 Jun 1331 1332 1338 SF N14E05 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0214	0223	0233	C3.3							
28 Jun 0422 0422 0424 SF N14E11 3354 28 Jun 0500 0549 0556 SF N13E09 3354 28 Jun 0603 0603 0613 SF N16E03 3354 28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0647 0648 0702 SF N12E11 3354 28 Jun 0821 U0822 0825 SF N12E10 3354 28 Jun 0826 0844 0859 M1.9 2N N20W62 3340 28 Jun 0916 0916 0919 SF N12E10 3354 28 Jun 1331 1332 1338 SF N12E09 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0328	0335	0344	C1.3	SF	N14E11	3354				
28 Jun 0500 0549 0556 SF N13E09 3354 28 Jun 0603 0603 0613 SF N16E03 3354 28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0647 0648 0702 SF N12E11 3354 28 Jun 0821 U0822 0825 SF N12E10 3354 28 Jun 0826 0844 0859 M1.9 2N N20W62 3340 28 Jun 0916 0916 0919 SF N12E10 3354 28 Jun 1331 1332 1338 SF N12E09 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0402	0409	0415	C1.6			3354				
28 Jun 0603 0603 0613 SF N16E03 3354 28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0647 0648 0702 SF N12E11 3354 28 Jun 0821 U0822 0825 SF N12E10 3354 28 Jun 0916 0919 SF N12E10 3354 28 Jun 0959 1000 1003 SF N12E09 3354 28 Jun 1331 1332 1338 SF N14E05 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0422	0422	0424		SF	N14E11	3354				
28 Jun 0623 0635 0638 SF N12E11 3354 28 Jun 0647 0648 0702 SF N12E11 3354 28 Jun 0821 U0822 0825 SF N12E10 3354 28 Jun 0826 0844 0859 M1.9 2N N20W62 3340 28 Jun 0916 0919 SF N12E10 3354 28 Jun 0959 1000 1003 SF N12E09 3354 28 Jun 1331 1332 1338 SF N14E05 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0500	0549	0556		SF	N13E09	3354				
28 Jun 0647 0648 0702 SF N12E11 3354 28 Jun 0821 U0822 0825 SF N12E10 3354 28 Jun 0826 0844 0859 M1.9 2N N20W62 3340 28 Jun 0916 0919 SF N12E10 3354 28 Jun 0959 1000 1003 SF N12E09 3354 28 Jun 1331 1332 1338 SF N14E05 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0603	0603	0613		SF	N16E03	3354				
28 Jun 0821 U0822 0825 SF N12E10 3354 28 Jun 0826 0844 0859 M1.9 2N N20W62 3340 28 Jun 0916 0916 0919 SF N12E10 3354 28 Jun 0959 1000 1003 SF N12E09 3354 28 Jun 1331 1332 1338 SF N14E05 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0623	0635	0638		SF	N12E11	3354				
28 Jun 0826 0844 0859 M1.9 2N N20W62 3340 28 Jun 0916 0919 SF N12E10 3354 28 Jun 0959 1000 1003 SF N12E09 3354 28 Jun 1331 1332 1338 SF N14E05 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0647	0648	0702		SF	N12E11	3354				
28 Jun 0916 0916 0919 SF N12E10 3354 28 Jun 0959 1000 1003 SF N12E09 3354 28 Jun 1331 1332 1338 SF N14E05 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0821	U0822	0825		SF	N12E10	3354				
28 Jun 0959 1000 1003 SF N12E09 3354 28 Jun 1331 1332 1338 SF N14E05 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0826	0844	0859	M1.9	2N	N20W62	3340				
28 Jun 1331 1332 1338 SF N14E05 3354 28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0916	0916	0919		SF	N12E10	3354				
28 Jun 1506 1507 1512 SF S22W36 3341	28 Jun	0959	1000	1003		SF	N12E09	3354				
	28 Jun	1331	1332	1338		SF	N14E05	3354				
28 Jun 1641 1644 1648 C1.8	28 Jun	1506	1507	1512		SF	S22W36	3341				
	28 Jun	1641	1644	1648	C1.8							



Flare List

				Optical							
		Time		X-ray	Imp/	Location	Rgn				
Date	Begin	Max	End	Class	Brtns	Lat CMD	#				
28 Jun	1822	1839	1904	C5.4	SN	N17W02	3354				
28 Jun	1846	1853	1904	C5.0	SF	S31W12	3348				
28 Jun	1944	1951	2002	C1.5							
28 Jun	2112	2118	2231		SF	N15W01	3354				
28 Jun	2302	2312	2324	C1.6							
29 Jun	0250	0300	0319	C1.7	SF	N14W01	3354				
29 Jun	0350	0403	0410	C2.8	SF	S32W20	3348				
29 Jun	0410	0420	0426	C3.3	SF	S15W46	3341				
29 Jun	0803	0809	0814	C2.7	SF	N14W01	3354				
29 Jun	1055	1115	1140	C3.4	SF	N14W11	3354				
29 Jun	1227	1238	1300	C3.1	SF	N14W11	3354				
29 Jun	1400	1415	1423	M3.8	2B	N17W14	3354				
29 Jun	2002	2013	2030	C3.0			3340				
29 Jun	2152	2207	2223	C5.3							
30 Jun	0609	0616	0622	C1.8	SF	N14W20	3354				
30 Jun	0707	0731	0755	C3.1			3354				
30 Jun	0951	1003	1021	C5.7	1F	N16W25	3354				
30 Jun	1116	1121	1129	C1.9	SF	N14W21	3354				
30 Jun	1239	1247	1251	C2.9			3340				
30 Jun	1307	1307	1314		SF	N14W24	3354				
30 Jun	1334	1352	1404	C4.2	SF	N17W30	3354				
30 Jun	1456	1457	1504		SF	N13W70					
30 Jun	1853	1857	1901	C3.7			3354				
30 Jun	1903	1907	1911	C2.8			3340				
01 Jul	0700	0706	0710	C2.5			3358				
01 Jul	0718	0725	0729	C2.4			3357				
01 Jul	0912	0919	0926	C2.1			3354				
01 Jul	1134	1139	1144	C3.5			3354				
01 Jul	1247	1256	1300	C4.1			3360				
01 Jul	1336	1344	1346		SF	N18W42	3354				
01 Jul	1356	1420	1452	C3.7			3358				
01 Jul	1528	1530	1540		SF	N26E65					
01 Jul	1552	1557	1603	C3.0	SF	N26E63	3360				
01 Jul	1604	1607	1614		SF	N14W39	3354				
01 Jul	1811	1811	1815		SF	N25E63					
01 Jul	1822	1823	1827		SF	S11E60	3358				
01 Jul	1905	1916	1925	C4.0			3359				
01 Jul	1957	2006	2020	C2.6			3354				



Flare List

				Optical								
		Time		X-ray	Imp/	Location	Rgn					
Date	Begin	Max	End	Class	Brtns	Lat CMD	#					
01 Jul	2001	2002	2013		SF	N26E62	3360					
01 Jul	2009	2010	2024		SF	N16W42	3354					
01 Jul	2039	2039	2042		SF	N13W39	3354					
01 Jul	2101	2102	2106		SF	N26E62						
01 Jul	2151	2153	2154		SF	S05E34	3357					
01 Jul	2207	2223	2231	M1.1	SN	S20E55	3359					
01 Jul	2238	2238	2243		SF	S05E33	3357					
01 Jul	2319	2321	2324		SF	N18W50	3351					
02 Jul	0007	0018	0023		SF	S20E54	3359					
02 Jul	0036	0036	0046		SF	S20E54	3359					
02 Jul	0229	0235	0240	M2.0			3359					
02 Jul	0246	0256	0302	C4.1			3359					
02 Jul	0327	0334	0338	C2.9			3354					
02 Jul	0507	0518	0525		SF	N17W47	3354					
02 Jul	0709	0709	0712		SF	N15W49	3354					
02 Jul	0817	0824	0834	C6.5	SF	N17W49	3354					
02 Jul	0840	0844	0856		SF	S10E51	3358					
02 Jul	0845	0853	0858	C8.8	SN	N16W51	3354					
02 Jul	0900	0900	0908		SF	S21E48	3359					
02 Jul	0936	0938	0940		SF	N15W51	3354					
02 Jul	0937	U0941	A1009		SF	N15W48	3351					
02 Jul	B1029	U1035	A1055		SF	S21E48	3359					
02 Jul	1106	1109	1124	C2.4			3354					
02 Jul	1107	1114	1126		SF	N16W52	3354					
02 Jul	1128	1129	1132		SF	N15W52	3354					
02 Jul	1302	1306	1312		SF	N15W50	3354					
02 Jul	1342	U1342	A1344		SF	S16E50	3359					
02 Jul	1418	1422	1424		SF	N15W54	3354					
02 Jul	1725	1735	1748	C2.6								
02 Jul	2119	2126	2131	C7.3	SF	S13E46	3359					
02 Jul	2216	2229	2240	C5.7								
02 Jul	2254	2314	2358	X1.0			3354					



Region Summary

	Location	on	Su	nspot C	haracte	ristics		Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			O	ptica	ı1	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Rogi	on 3334												
12 1	N17E(0	_		1	TT	2		1							
13 Jun	N17E68	293 291	90	1	Hax	3 2	A	1			1				
14 Jun	N17E56	288	60	1	Hax		A				1				
15 Jun	N17E47		10	1	Axx	1	A								
16 Jun 17 Jun	N17E36 N16E21	286 287	10	1	Axx	1	A								
	N16E21 N16E07	288	plage					1							
18 Jun		289	plage					1							
19 Jun 20 Jun	N16W07 N16W21	290	plage plage												
20 Jun 21 Jun	N16W21	290	plage												
21 Jun 22 Jun	N17W40	282	20	4	Bxo	3	В								
22 Jun 23 Jun	N17W40 N17W54	283	plage	4	DXU	3	Б	1							
24 Jun	N17W68	284	plage					1							
24 Jun 25 Jun	N17W82	284	plage												
25 Juli	1117 11 02	204	prage					3	0	0	1	0	0	0	0
Crossed	l West Lim	h						5	O	O	•	O	Ü	O	Ü
	te heliograp		ngitude: 2	88											
			-8												
		Regi	on 3335												
14 Jun	S15E63	284	140	2	Dao	5	В	5			10	1			
15 Jun	S15E51	284	150	11	Eso	9	В	1			2				
16 Jun	S15E37	285	380	11	Ehi	18	BG	1							
17 Jun	S15E24	284	390	13	Eki	18	BG	1							
18 Jun	S15E10	285	360	13	Eki	18	BG	2			3				
19 Jun	S15W03	284	200	13	Eai	22	В	4			5				
20 Jun	S15W16	284	200	13	Eai	18	В				2				
21 Jun	S15W28	283	220	11	Eai	17	В				1				
22 Jun	S15W44	284	230	11	Esi	9	В								
23 Jun	S15W58	287	230	8	Dso	9	В	1			2				
24 Jun	S14W73	288	220	6	Cso	4	В	4			4				
25 Jun	S15W87	289	200	2	Hax	1	Α	2			1				
	1 7 7 7 7 7 1	1						21	0	0	30	1	0	0	0



	Location	on	Su	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	on 3336														
14 Jun	S20E66	281	160	6	Cso	5	В										
15 Jun	S21E54	281	130	9	Dao	9	В	2			2						
16 Jun	S21E44	278	80	6	Cao	8	В										
17 Jun	S21E31	277	30	3	Cro	5	В	1									
18 Jun	S22E17	278	30	4	Cro	5	В	2	2		1		1				
19 Jun	S23E03	279	20	9	Cro	7	В										
20 Jun	S22W11	282	plage								1						
21 Jun	S19W30	284	plage								3						
22 Jun	S19W44	286	plage														
23 Jun	S19W58	287	plage														
24 Jun	S19W72	288	plage														
25 Jun	S19W86	288	plage					5									
	l West Limb te heliograp	hic lor		79													
		Kegi	on 3337														
15 Jun	N17E69	266	10	1	Axx	1	A										
16 Jun	N17E59	263	10	1	Axx	1	A		1								
17 Jun	N17E45	263	plage														
18 Jun	N17E31	264	plage														
19 Jun	N17E18	264	10	1	Axx	1	A										
20 Jun	N16E04	264	plage														
21 Jun	N20W07	262	120	4	Cso	10	В	1	1		2						
22 Jun	N20W24	266	60	5	Dro	6	В	2			3						
23 Jun	N20W38	267	80	7	Dao	6	В	3			4						
24 Jun	N21W51	267	60	7	Cao	6	В	3	1		5						
25 Jun	N21W61	263	30	3	Hax	3	A	2			3						
26 Jun	N15W75	264	10	1	Hrx	1	A				1						
27 Jun	N15W90	266	10	1	Axx	1	A	1			1						
								12	3	0	19	0	0	0	0		



-	Location	on	Su	nspot C	haracte	ristics			_		Flares	.	_	_	
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			O	ptica	ıl	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Dage	ion 2220												
		Ū	ion 3338												
14 Jun	N11E83	265	plage					1							
15 Jun	N11E73	262	20	8	Cao	2	В	1			3				
16 Jun	N11E59	263	140	6	Cso	4	В	1	1		1				
17 Jun	N11E45	263	130	8	Cso	6	В				1				
18 Jun	N11E31	264	120	9	Cao	6	В								
19 Jun	N11E17	264	70	10	Dao	10	В	1							
20 Jun	N11E04	264	50	11	Eso	8	В								
21 Jun	N11W08	262	40	8	Cso	5	В								
22 Jun	N11W22	264	30	8	Cso	4	В								
23 Jun	N11W37	266	20	4	Cro	5	В	1			2				
24 Jun	N11W51	266	20	2	Hrx	4	A	1							
25 Jun	N11W64	266	20	2	Cro	3	В	1			2				
26 Jun	N09W78	267	10	2	Axx	2	A								
								7	1	0	9	0	0	0	0
	l West Liml														
Absolut	te heliograp	hic lo	ngitude: 2	64											
		Dage	: 2220												
		O	ion 3339												
17 Jun	S19E70	238	100	2	Hsx	1	Α	2							
18 Jun	S19E56	239	120	2	Hsx	1	Α								
19 Jun	S19E42	239	180	4	Hsx	1	Α								
20 Jun	S18E28	240	140	4	Hax	2	A	1			1				
21 Jun	S18E15	239	140	5	Cao	5	В				1				
22 Jun	S20E03	239	140	6	Cao	9	В								
23 Jun	S20W11	240	110	8	Cao	9	В								
24 Jun	S20W23	239	110	5	Cso	7	В	1							
25 Jun	S20W37	239	90	4	Cso	6	В	1							
26 Jun	S23W51	240	150	9	Cso	10	В	1			2				
27 Jun	S20W65	241	60	6	Cso	3	В								
28 Jun	S21W78	238	40	2	Hax	1	A								
29 Jun	S19W91	239	30	1	Hax	1	A								
								6	Λ	Λ	1	Λ	Λ	Λ	Λ



	Location	on	Su	inspot C	haracte	ristics]	Flares	}			
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			О	ptica	1	
Date	Lat CMD	Lon 1	0 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regio	n 3340												
18 Jun	N23E59	236	100	4	Cao	6	В	1			1				
19 Jun	N23E45	237	100	4	Dao	6	В	2			5				
20 Jun	N21E31	238	80	6	Cao	7	BG				3				
21 Jun	N21E19	235	120	8	Dai	12	BG				1				
22 Jun	N22E07	235	130	10	Dsi	12	В		1		1				
23 Jun	N22W07	236	160	11	Esi	13	В	1			2				
24 Jun	N22W19	235	200	11	Eai	18	В	3			3				
25 Jun	N23W31	233	300	11	Ekc	18	BD	8			6				
26 Jun	N20W45	234	350	11	Eki	22	BG	8	1		9	3			
27 Jun	N23W58	234	260	12	Eki	17	BG	4	1		11		1		
28 Jun	N23W72	235	220	11	Eai	14	BG		1				1		
29 Jun	N23W86	236	80	11	Eai	7	BG	1							
								28	4	0	42	3	2	0	0

Crossed West Limb. Absolute heliographic longitude: 235

		Region	n 3341												
19 Jun	S13E62	219	100	8	Cso	2	В		2		1				
20 Jun	S15E58	218	110	7	Dao	4	BG	3		1	3				
21 Jun	S15E48	211	190	6	Cso	7	В	1	1		2	1			
22 Jun	S16E35	207	180	6	Cso	7	В	2	1		2	1			
23 Jun	S16E22	207	200	5	Cso	5	В	1							
24 Jun	S16E09	207	140	4	Cao	4	В	3			2				
25 Jun	S16W05	207	130	4	Cao	5	В	1			2	1			
26 Jun	S15W19	208	120	10	Cao	9	В	1			1				
27 Jun	S15W33	209	50	6	Cao	2	В	1			2	1			
28 Jun	S15W47	210	30	2	Hax	1	A				1				
29 Jun	S15W61	211	20	2	Hax	2	A	1			1				
30 Jun	S16W75	211	10	1	Axx	1	A								
01 Jul	S16W88	211	10	1	Axx	1	A								
								14	4	1	17	4	0	0	0



	Location	on	Su	nspot C	haracte	eristics]	Flares	5			
		Helio	Area	Extent	Spot	Spot	Mag	>	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	on 3343												
19 Jun	N16W01	282	10	4	Bxo	4	В								
20 Jun	N16W14	282	plage												
21 Jun	N16W28	283	plage												
22 Jun	N16W42	284	plage												
23 Jun	N16W56	285	plage												
24 Jun	N16W70	286	plage												
25 Jun	N16W84	286	plage												
								0	0	0	0	0	0	0	0
	l West Lim														
Absolu	te heliograp	hic lon	igitude: 2	82											
		Regi	on 3345												
20 Jun	N10E59	209	30	2	Dso	3	В								
21 Jun	N09E48	209	80	5	Cso	5	В				1				
22 Jun	N09E33	209	40	5	Cso	5	В								
23 Jun	N08E19	210	20	4	Cro	3	В								
24 Jun	N09E04	212	10	1	Hrx	1	A								
25 Jun	N09W09	211	10	1	Hrx	1	A								
26 Jun	N09W23	212	10	1	Hrx	1	Α								
27 Jun	N09W37	213	10	1	Hrx	1	A								
28 Jun	N09W50	213	20	1	Hrx	1	Α								
29 Jun	N09W64	214	10	1	Axx	1	A								
30 Jun	N06W78	214	10	1	Hrx	1	A								
								0	0	0	1	0	0	0	0



	Location	on	Su	nspot C	haracte	ristics			Flares							
		Helio		Extent	_	_	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	on 3346													
21 Jun	N08E22	232	20	4	Cao	5	В									
22 Jun	N08E08	234	20	4	Bxo	4	В									
23 Jun	N08W06	235	plage													
24 Jun	N10W20	235	20	2	Bxo	2	В									
25 Jun	N08W33	235	10	4	Bxo	2	В									
26 Jun	N08W47	236	plage													
27 Jun	N08W61	237	plage													
28 Jun	N08W75	238	plage													
29 Jun	N08W89	239	plage													
								0	0	0	0	0	0	0	0	
	l West Lim															
Absolut	te heliograp	hic lor	igitude: 2	35												
		Regi	on 3347													
23 Jun	S17W26	255	30	6	Cro	5	В									
24 Jun	S17W20 S18W38	253	10	6 3	Bxo	5 3	В									
24 Jun 25 Jun	S18W50	252	10	1	Axx	2	A									
26 Jun	S18W50 S19W64	253	10	1	Axx	1	A									
27 Jun	S19W78	254	plage	1	ПЛЛ	1	А									
27 Jun	5171170	254	plage					0	0	0	0	0	0	0	0	
Crossec	l West Lim	b.														
	te heliograp		ngitude: 2	55												
		P ogi	on 3348													
22.1	G21E46	O		~	ъ	2	ъ									
23 Jun	S31E46	183	20	5	Bxo	3	В									
24 Jun	S31E34	182	20	7	Bxo	2	В									
25 Jun	S31E20	182	plage	4	ъ	2	D									
26 Jun	S33E07	182	10	4	Bxo	2	В									
27 Jun	S33W06	182	10	5	Bxo	5	В	1			1					
28 Jun	S33W19	182	10	6	Bxo	3	В	1			1					
29 Jun	S33W33	183	plage					1			1					
30 Jun	S33W47	183	plage													
01 Jul	S33W61	184	plage													
02 Jul	S33W75	185	plage					2	0	0	2	0	0	0	0	
Still on	Disk.							_	-	-	_	-	-	-	-	

Still on Disk.
Absolute heliographic longitude: 182



Helio		Location	on	Su	ınspot C	haracte	eristics]	Flares	5			
### Region 3349 23 Jun N09E38 191 20 3 Bxo 3 B 24 Jun N09E24 192 20 5 Bxo 2 B 25 Jun N08E11 191 10 6 Bxo 2 B 26 Jun N08W03 192 plage 27 Jun N08W17 193 plage 28 Jun N08W31 194 plage 29 Jun N08W45 195 plage 01 Jul N08W73 196 plage 01 Jul N08W73 196 plage 02 Jul N08W87 197 plage 8 Still on Disk. **Absolute heliographic longitude: 192** **Region 3350** 23 Jun S11E39 190 10 1 Axx 1 A 1 24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W35 195 plage 30 Jun S11W37 196 plage 30 Jun S11W37 196 plage 30 Jun S11W37 197 plage 30 Jun S11W37 196 plage 30 Jun S11W37 197 plage 30 Jun S1W37 197 plage			Helio	o Area	Extent	Spot	Spot	Mag	X	K-ray			0	ptica	ıl	
23 Jun N09E38 191 20 3 Bxo 3 B 24 Jun N09E24 192 20 5 Bxo 2 B 25 Jun N08E11 191 10 6 Bxo 2 B 26 Jun N08W03 192 plage 27 Jun N08W17 193 plage 28 Jun N08W31 194 plage 29 Jun N08W45 195 plage 30 Jun N08W59 195 plage 01 Jul N08W87 197 plage Region 3350 23 Jun S11E39 190 10 1 Axx 1 A 24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W17 193 plage 29 Jun S11W31 194 plage 29 Jun S11W31 194 plage 20 Jun S11W45 195 plage 30 Jun S11W59 195 plage 30 Jun S11W73 196 plage	Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
24 Jun N09E24 192 20 5 Bxo 2 B 25 Jun N08E11 191 10 6 Bxo 2 B 26 Jun N08W03 192 plage 27 Jun N08W17 193 plage 28 Jun N08W31 194 plage 29 Jun N08W45 195 plage 30 Jun N08W59 195 plage 01 Jul N08W87 197 plage 02 Jul N08W87 197 plage 8 Region 3350 23 Jun S11E39 190 10 1 Axx 1 A 24 Jun S11E25 191 plage 25 Jun S11W17 193 plage 26 Jun S11W17 193 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W31 194 plage 20 Jul S11W45 195 plage 30 Jun S11W73 196 plage			Reg	ion 3349												
25 Jun N08E11 191 10 6 Bxo 2 B 26 Jun N08W03 192 plage 27 Jun N08W17 193 plage 28 Jun N08W31 194 plage 29 Jun N08W31 194 plage 29 Jun N08W45 195 plage 30 Jun N08W59 195 plage 02 Jul N08W87 197 plage Still on Disk. **Absolute heliographic longitude: 192** **Region 3350** 23 Jun S11E39 190 10 1 Axx 1 A 24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W03 192 plage 27 Jun S11W17 193 plage 29 Jun S11W17 193 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 30 Jun S11W59 195 plage 30 Jun S11W73 196 plage 30 Jul S11W73 196 plage 30 Jul S11W73 196 plage 30 Jul S11W73 197 plage	23 Jun	N09E38	191	20	3	Bxo	3	В								
26 Jun N08W03 192 plage 27 Jun N08W17 193 plage 28 Jun N08W31 194 plage 29 Jun N08W45 195 plage 30 Jun N08W59 195 plage 01 Jul N08W73 196 plage 02 Jul N08W87 197 plage Still on Disk. Absolute heliographic longitude: 192 Region 3350 23 Jun S11E39 190 10 1 Axx 1 A 1 24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W31 194 plage 29 Jun S11W59 195 plage 30 Jun S11W59 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 01 Jul S11W73 196 plage 02 Jul S11W73 196 plage 02 Jul S11W73 197 plage	24 Jun	N09E24	192	20	5	Bxo	2	В								
27 Jun N08W17 193 plage 28 Jun N08W31 194 plage 29 Jun N08W45 195 plage 30 Jun N08W59 195 plage 01 Jul N08W73 196 plage 02 Jul N08W87 197 plage 8 Still on Disk. Absolute heliographic longitude: 192 Region 3350 23 Jun S11E39 190 10 1 Axx 1 A 24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W73 196 plage 02 Jul S11W73 196 plage 02 Jul S11W73 197 plage	25 Jun	N08E11	191	10	6	Bxo	2	В								
28 Jun N08W31 194 plage 29 Jun N08W45 195 plage 30 Jun N08W59 195 plage 01 Jul N08W73 196 plage 02 Jul N08W87 197 plage Still on Disk. Absolute heliographic longitude: 192 Region 3350 23 Jun S11E39 190 10 1 Axx 1 A 24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W73 196 plage 02 Jul S11W73 197 plage	26 Jun	N08W03	192	plage												
29 Jun N08W45 195 plage 30 Jun N08W59 195 plage 01 Jul N08W73 196 plage 02 Jul N08W87 197 plage Still on Disk. Absolute heliographic longitude: 192 Region 3350 23 Jun S11E39 190 10 1 Axx 1 A 24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W31 194 plage 29 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W73 196 plage 02 Jul S11W87 197 plage	27 Jun	N08W17	193	plage												
30 Jun N08W59 195 plage 01 Jul N08W73 196 plage 02 Jul N08W87 197 plage Still on Disk. Absolute heliographic longitude: 192 Region 3350 23 Jun S11E39 190 10 1 Axx 1 A 1 24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W17 193 plage 29 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W87 197 plage	28 Jun	N08W31	194	plage												
01 Jul N08W73 196 plage	29 Jun	N08W45	195	plage												
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30 Jun	N08W59	195	plage												
Still on Disk. Absolute heliographic longitude: 192 **Region 3350** 23 Jun S11E39	01 Jul	N08W73	196	plage												
Still on Disk. Absolute heliographic longitude: 192 **Region 3350** 23 Jun S11E39 190 10 1 Axx 1 A 1 24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W87 197 plage	02 Jul	N08W87	197	plage												
### Region 3350 23 Jun S11E39 190 10 1 1 1 1 1 1 1 1	0.11	D: 1							0	0	0	0	0	0	0	0
Region 3350 23 Jun S11E39 190 10 1 Axx 1 A 1 24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W87 197 plage			hic lo	ngitude: 1	92											
23 Jun S11E39 190 10 1 Axx 1 A 1 24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W87 197 plage		C I		U												
24 Jun S11E25 191 plage 25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W87 197 plage			Reg	ion 3350												
25 Jun S11E11 191 plage 26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W87 197 plage	23 Jun	S11E39	190	10	1	Axx	1	A				1				
26 Jun S11W03 192 plage 27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W87 197 plage	24 Jun	S11E25	191	plage												
27 Jun S11W17 193 plage 28 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W87 197 plage	25 Jun	S11E11	191	plage												
28 Jun S11W31 194 plage 29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W87 197 plage	26 Jun	S11W03	192	plage												
29 Jun S11W45 195 plage 30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W87 197 plage	27 Jun	S11W17	193	plage												
30 Jun S11W59 195 plage 01 Jul S11W73 196 plage 02 Jul S11W87 197 plage	28 Jun	S11W31	194	plage												
01 Jul S11W73 196 plage 02 Jul S11W87 197 plage	29 Jun	S11W45	195	plage												
02 Jul S11W87 197 plage	30 Jun	S11W59	195	plage												
	01 Jul	S11W73	196	plage												
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	02 Jul	S11W87	197	plage												
Still on Disk	~								0	0	0	1	0	0	0	0

Still on Disk. Absolute heliographic longitude: 192



	Location	on	Su	nspot C	haracte	ristics					Flares				
		Helio	Area	Extent	Spot	Spot	Mag	X	-ray			O	ptica	ıl	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regi	on 3351												
23 Jun	N22E59	170	20	2	Hsx	1	A								
24 Jun	N22E46	170	30	1	Hsx	1	A								
25 Jun	N22E32	170	20	2	Hrx	3	A								
26 Jun	N20E18	171	30	3	Cro	5	В	1			1				
27 Jun	N20E05	171	10	4	Bxo	2	В	1			1				
28 Jun	N21W08	171	10	2	Bxo	2	В								
29 Jun	N21W22	172	plage												
30 Jun	N21W36	172	plage												
01 Jul	N21W50	173	plage								1				
02 Jul	N21W64	174	plage								1				
								2	0	0	4	0	0	0	0
Still on															
Absolu	Absolute heliographic lo		igitude: 1	71											
		Regi	on 3352												
24 Jun	N08W59	275	20	3	Cro	3	В								
25 Jun	N09W73	275	10	5	Bxo	3	В				1				
26 Jun	N09W87	276	plage												
								0	0	0	1	0	0	0	0
Crossec	l West Lim	b.													
	te heliograp		igitude: 2	75											
		Rogi	on 3353												
24.1	0103310	_		2	D	2	ъ								
24 Jun	S18W12	228	10	3	Bxo	3	В								
25 Jun	S18W26	228	10	1	Axx	1	A								
26 Jun	S18W40	229	plage												
27 Jun	S18W54	230	plage												
28 Jun	S18W68	231 232	plage												
29 Jun	S18W82	232	plage					0	0	0	0	0	0	0	0
Crossec	l West I im	h						U	U	U	U	U	U	U	U



	Date Lat CMD Lon 10 ⁻⁶ hemi. (helio) Class Count Class C M X S 1														
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray			О	ptica	ıl	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regi	on 3354												
26 Jun	N15E24	164	20	3	Cso	5	В								
27 Jun	N15E11	165	450	9	Dki	19	BG	6			6				
28 Jun	N14W03	166	800	11	Ekc	38	BGD	4			12				
29 Jun	N15W16	166	890	13	Ekc	40	BGD	4	1		4		1		
30 Jun	N13W30	166	880	16	Fkc	30	BGD	6			4	1			
01 Jul	N13W44	167	1100	17	Fkc	26	BGD	3			4				
02 Jul	N16W58	168	1150	18	Fkc	22	BGD	4		1	9				
								27	1	1	39	1	1	0	0
Still on															
Absolut	te heliograp	hic lor	igitude: 1	66											
		Regi	on 3355												
27 Jun	S16E56	120	40	1	Hax	1	A								
28 Jun	S16E42	121	30	1	Hsx	1	A								
29 Jun	S16E28	122	30	1	Hax	1	A								
30 Jun	S16E14	122	20	2	Hsx	3	A								
01 Jul	S16E03	119	10	2	Hrx	2	A								
02 Jul	S16W06	116	10	2	Axx	1	A								
								0	0	0	0	0	0	0	0
Still on Absolut	Disk. te heliograp	hic lor	ngitude: 1	19											
		Regi	on 3356												
30 Jun	S08E38	98	10	1	Bxo	2	В								
01 Jul	S08E24	99	30	3	Cro	5	В								
02 Jul	S07E09	101	10	3	Bxo	3	В								
Still on	Diale							0	0	0	0	0	0	0	0
	te heliograp	hic lor	ngitude: 1	01											
		Regi	on 3357												
01 Jul	S07E32	91	20	2	Dro	5	В	1			2				
02 Jul	S07E32 S07E18	92	30	3	Dao	6	В	1			4				
02 041	50,210	72	50	3	240	O	ע	1	0	0	2	0	0	0	0
Still on	Disk								-	-		-	-	-	-



Still on Disk. Absolute heliographic longitude: 92



·	Location	on	Sunspot Characteristics Flares Area Extent Spot Spot Mag X-ray Option												
		Helio	Area	Extent	Spot	Spot	Mag	Σ	K-ray			O	ptica	ıl	
Date	Lat CMD	Lon 1	0 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Regio	n 3358												
01 Jul	S12E57	66	90	3	Dai	3	В	2			1				
02 Jul	S12E43	66	70	6	Dai	15	В				1				
								2	0	0	2	0	0	0	0
Still on Absolu	Disk. te heliograp	hic long	gitude: 6	6											
	Region 3359														
01 Jul	S20E61	61	30	5	Dri	7	В	1	1		1				
02 Jul	S22E41	68	60	7	Dai	7	В	2	1		6				
								3	2	0	7	0	0	0	0
Still on Absolu	Disk. te heliograp	hic long	gitude: 6	8											
		Regio	n 3360												
02 Jul	N23E44	66	20	2	Hsx	2	A	2	0	0	1	0	0	0	0
Still on	Disk.	1 ' 1	. 1	_											

Absolute heliographic longitude: 66



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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Guide

