

Solar activity was very low. Region 2766 (N06 L=117, class/area Bxo/beta on 04 Jul) was the only active region on the visible disk. The region was in decay at the end of the reporting period.

Other activity included a DFS, approximately 18 degrees in length, which erupted in the SE quadrant beginning around 05/0630 UTC. Subsequent SOHO/LASCO C2 imagery showed the related CME signature after 05/1412 UTC. Analysis for an Earth-directed component is ongoing.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal background to moderate levels.

Geomagnetic field activity ranged from quiet to unsettled. Unsettled levels were observed on 01 Jul due to sustained southward Bz and on 04-05 Jul in response to a positive polarity CH HSS. The remainder of the summary period was at quiet levels under nominal solar wind conditions.

**Space Weather Outlook**  
**06 July - 01 August 2020**

Solar activity is expected to be at very low levels throughout the outlook period.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be normal background to moderate levels throughout the outlook period.

Geomagnetic field activity is expected to be at quiet to unsettled levels. A recurrent positive polarity CH HSS is expected to cause isolated unsettled levels on 06 Jul and again on 31 Jul - 01 Aug. The remainder of the outlook period is expected to be at quiet levels. Analysis and modeling of the 5 Jul CME is not complete and the presence of an Earth-directed component is possible.



### *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	
29 June	69	0	0	A1.4	0	0	0	0	0	0	0	0	0
30 June	68	0	0	A1.2	0	0	0	0	0	0	0	0	0
01 July	68	0	0	A0.0	0	0	0	0	0	0	0	0	0
02 July	68	0	0	A0.0	0	0	0	0	0	0	0	0	0
03 July	69	0	0	A0.0	0	0	0	0	0	0	0	0	0
04 July	70	12	10	A0.0	0	0	0	0	0	0	0	0	0
05 July	69	11	10	A0.0	0	0	0	0	0	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	
	29 June	6.1e+04	4.7e+04	1.6e+06
30 June	9.3e+04	4.7e+04	1.1e+06	
01 July	7.6e+04	4.7e+04	1.1e+06	
02 July	8.2e+04	4.6e+04	1.2e+06	
03 July	8.5e+04	4.7e+04	1.2e+06	
04 July	1.5e+05	4.6e+04	1.3e+06	
05 July	1.3e+05	4.6e+04	1.4e+06	

### *Daily Geomagnetic Data*

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	29 June	4	1-1-0-1-2-2-2-1	1	1-1-0-0-0-0-0-0	3
30 June	5	2-2-2-1-2-1-0-2	3	2-2-2-0-0-0-0-1	4	2-2-2-0-1-1-0-2
01 July	6	1-1-1-2-2-1-3-2	3	1-1-1-2-0-0-2-1	6	1-1-1-1-1-0-2-3
02 July	5	1-1-0-1-3-2-1-1	2	1-1-0-0-1-1-1-0	4	1-1-1-0-1-1-1-1
03 July	5	1-1-2-1-3-1-1-1	2	1-1-1-2-0-0-0-0	4	1-1-1-1-1-1-1-1
04 July	9	1-1-2-2-3-2-3-3	4	1-1-1-0-2-1-2-2	7	1-1-1-2-2-1-3-3
05 July	13	3-3-3-3-3-1-2-3	24	2-4-6-5-3-1-1-2	9	2-3-3-3-2-1-2-3



## *Alerts and Warnings Issued*

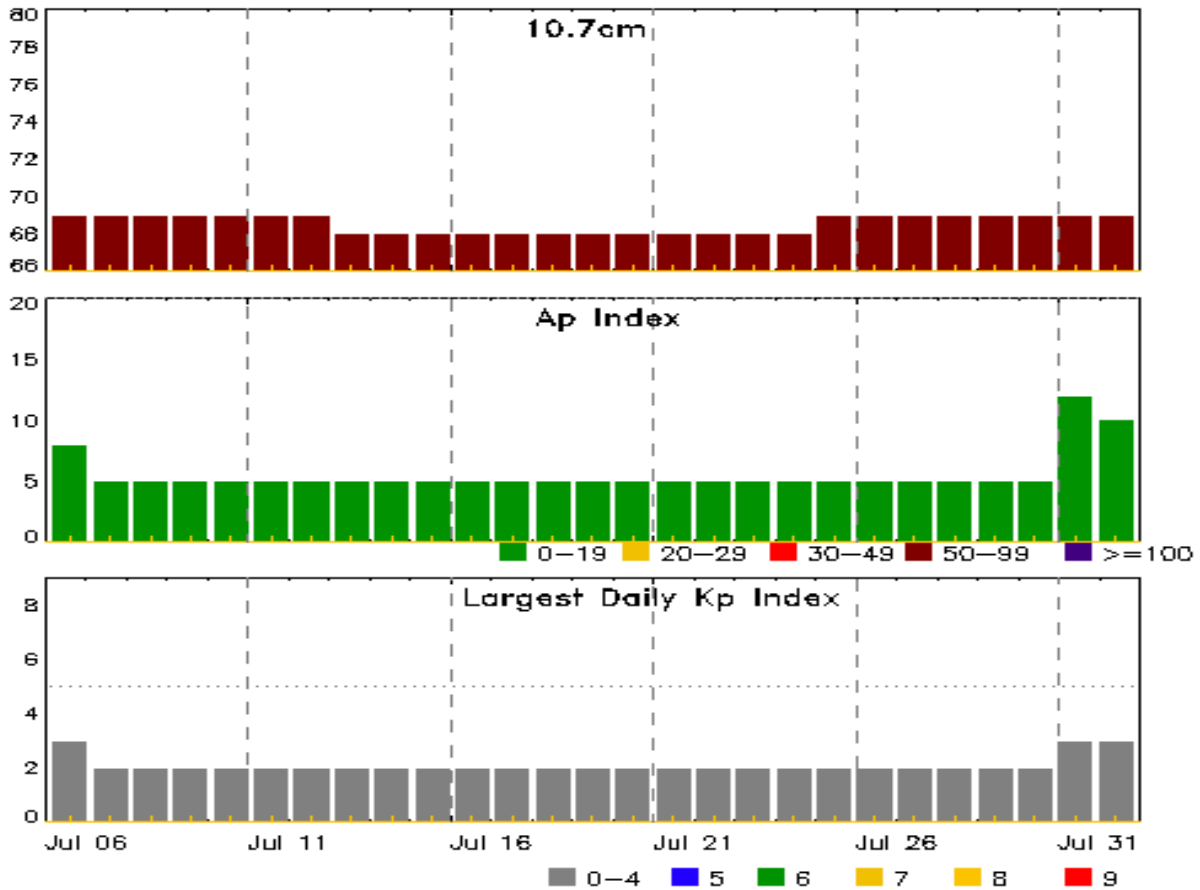
---

<b>Date &amp; Time of Issue UTC</b>	<b>Type of Alert or Warning</b>	<b>Date &amp; Time of Event UTC</b>
05 Jul 0413	WARNING: Geomagnetic K = 4	05/0411 - 1500

---



## 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
06 Jul	69	8	3	20 Jul	68	5	2
07	69	5	2	21	68	5	2
08	69	5	2	22	68	5	2
09	69	5	2	23	68	5	2
10	69	5	2	24	68	5	2
11	69	5	2	25	69	5	2
12	69	5	2	26	69	5	2
13	68	5	2	27	69	5	2
14	68	5	2	28	69	5	2
15	68	5	2	29	69	5	2
16	68	5	2	30	69	5	2
17	68	5	2	31	69	12	3
18	68	5	2	01 Aug	69	10	3
19	68	5	2				



### ***Energetic Events***

Date	Time			X-ray	Optical Information			Peak		Sweep Freq	
	Begin	Max	Half Max	Class	Integ Flux	Imp/ Brtns	Location Lat CMD	Rgn #	Radio Flux 245	Radio Flux 2695	Intensity II

**No Events Observed**

### ***Flare List***

Date	Time			X-ray Class	Optical		
	Begin	Max	End		Imp/ Brtns	Location Lat CMD	Rgn #
02 Jul	1258	1300	1302	A4.3			
04 Jul	0305	0306	0307	A1.1			



## *Region Summary*

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><i>Region 2766</i></b>																		
04 Jul	N06E19		117	10	4	Bxo	2	B										
05 Jul	N05E04		119	10	1	Axx	1	A										
									0	0	0	0	0	0	0	0	0	0

Still on Disk.

Absolute heliographic longitude: 119



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

Published every Monday by the Space Weather Prediction Center.

U.S. Department of Commerce  
NOAA / National Weather Service  
Space Weather Prediction Center  
325 Broadway, Boulder CO 80305

**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

<https://www.swpc.noaa.gov/content/contact-us> -- Contact and Copyright  
information

[https://www.swpc.noaa.gov/sites/default/files/images/u2/Usr\\_guide.pdf](https://www.swpc.noaa.gov/sites/default/files/images/u2/Usr_guide.pdf) -- User  
Guide

