

Space Weather Highlights
06 July - 12 July 2020

SWPC PRF 2341
13 July 2020

Solar activity was very low throughout the summary period. Region 2766 (N05, L=122, class/area Bxo/010 on 10 Jul) was the only spotted region and decayed to plage by 11 Jul.

A filament eruption near S29W18 produced a faint, slow-moving CME signature in LASCO/SOHO C2 imagery beginning at 09/0724 UTC. Analysis and modeling of the event suggested a possible glancing blow from the CME around 14 Jul.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at normal to moderate levels throughout the summary period.

Geomagnetic field activity was quiet. No significant periods of southward Bz were observed.

Space Weather Outlook
13 July - 08 August 2020

Solar activity is expected to be very low over the outlook period.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to continue at normal to moderate levels.

Geomagnetic field activity is expected to range from quiet to active levels. Unsettled conditions are likely on 13 Jul and 31 Jul - 01 Aug in response to coronal hole influence. Active conditions are likely on 14 Jul due to the anticipated arrival of a slow-moving transient that left the Sun on 09 Jul. The remainder of the outlook period is expected to be at quiet levels under a nominal solar wind environment.



Daily Solar Data

Date	Radio Flux 10.7cm	Sun spot No.	Sunspot Area (10 ⁻⁶ hemi.)	X-ray Background Flux	Flares							
					X-ray			Optical				
					C	M	X	S	1	2	3	4
06 July	69	0	0	A0.0	0	0	0	0	0	0	0	0
07 July	68	0	0	A0.0	0	0	0	0	0	0	0	0
08 July	67	0	0	A0.0	0	0	0	0	0	0	0	0
09 July	69	0	0	A0.0	0	0	0	0	0	0	0	0
10 July	69	12	10	A0.0	0	0	0	0	0	0	0	0
11 July	69	0	0	A0.0	0	0	0	0	0	0	0	0
12 July	68	0	0	A0.0	0	0	0	0	0	0	0	0

Daily Particle Data

Date	Proton Fluence (protons/cm ² -day-sr)		Electron Fluence (electrons/cm ² -day-sr)
	>1 MeV	>10 MeV	>2MeV
	06 July	5.9e+04	4.6e+04
07 July	5.8e+04	4.6e+04	3.2e+06
08 July	7.3e+04	4.7e+04	3.9e+06
09 July	8.1e+04	4.7e+04	2.6e+06
10 July	1.0e+05	4.7e+04	1.9e+06
11 July	9.8e+04	4.7e+04	1.6e+06
12 July	2.3e+05	4.7e+04	2.2e+06

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
	06 July	6	2-1-2-1-2-2-2-1	4	1-1-2-1-2-1-1-0	5
07 July	5	0-2-3-1-1-2-1-1	2	0-1-1-1-1-0-0-1	4	1-1-2-1-1-1-0-1
08 July	2	0-1-0-1-1-0-1-1	0	0-0-0-0-0-0-0-0	2	0-1-0-0-0-0-0-1
09 July	4	1-1-1-1-1-2-2-0	4	1-0-2-2-3-0-0-0	4	1-1-1-1-1-1-1-1
10 July	3	0-1-2-1-1-1-1-1	1	0-0-2-1-0-0-0-0	3	0-1-2-1-0-1-0-1
11 July	2	1-1-0-0-1-1-1-1	1	1-0-0-0-0-0-0-1	3	1-0-0-1-0-0-1-1
12 July	3	0-0-0-1-1-2-0-2	1	0-0-0-1-1-0-0-0	3	1-1-1-1-1-1-0-1

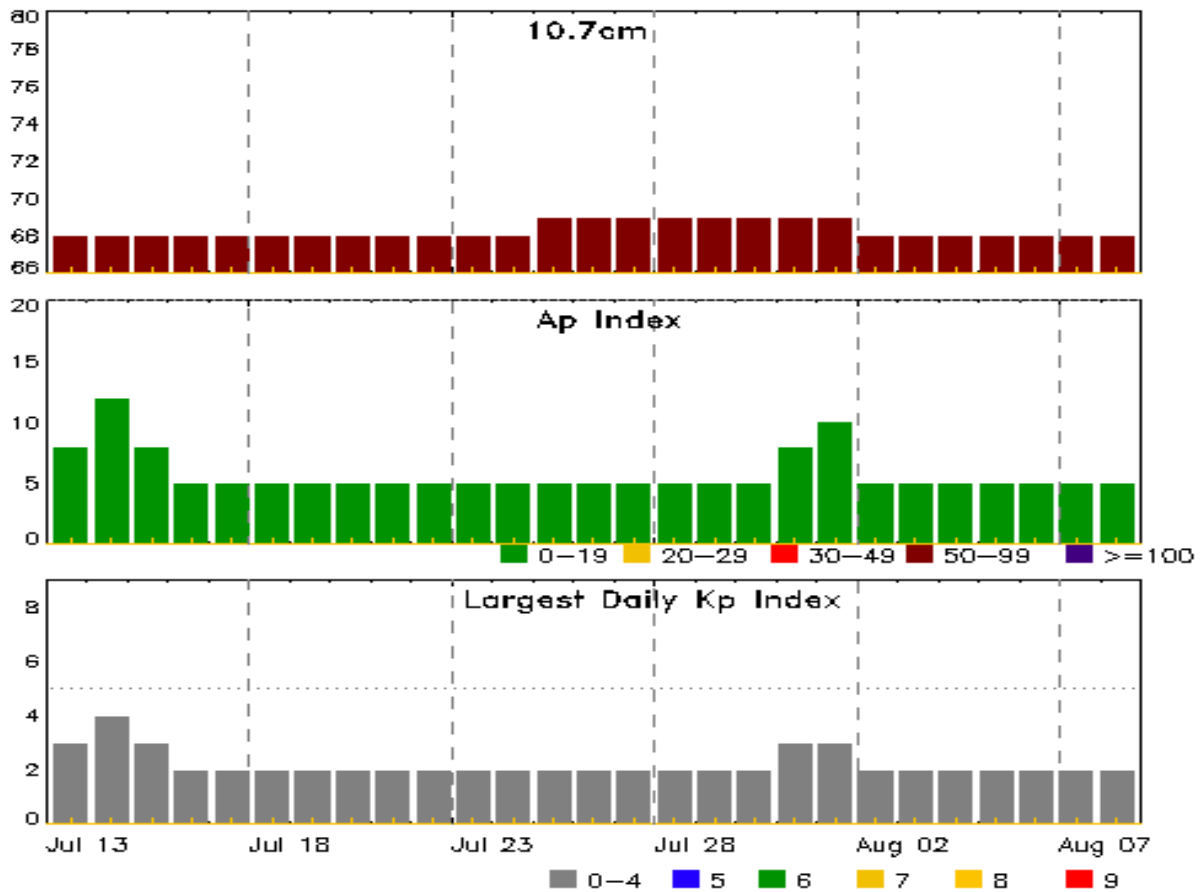


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
	No Alerts or Warnings Issued	



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
13 Jul	68	8	3	27 Jul	69	5	2
14	68	12	4	28	69	5	2
15	68	8	3	29	69	5	2
16	68	5	2	30	69	5	2
17	68	5	2	31	69	8	3
18	68	5	2	01 Aug	69	10	3
19	68	5	2	02	68	5	2
20	68	5	2	03	68	5	2
21	68	5	2	04	68	5	2
22	68	5	2	05	68	5	2
23	68	5	2	06	68	5	2
24	68	5	2	07	68	5	2
25	69	5	2	08	68	5	2
26	69	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 #	245	2695	II

No Events Observed

Flare List

Date	Time			X-ray Class	Optical			Rgn #
	Begin	Max	End		Imp/ Brtns	Location Lat CMD		

No Flares Observed



Region Summary

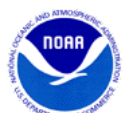
Date	Location		Sunspot Characteristics				Flares								
	Lat CMD	Lon	Helio 10 ⁻⁶ hemi.	Area	Extent (helio)	Spot Class	Spot Count	Mag Class	X-ray			Optical			
									C	M	X	S	1	2	3

Region 2766

04 Jul	N06E19	117	10	4	Bxo	2	B										
05 Jul	N05E04	119	10	1	Axx	1	A										
06 Jul	N04W11	120	plage														
07 Jul	N04W26	122	plage														
08 Jul	N04W40	123	plage														
09 Jul	N04W54	124	plage														
10 Jul	N05W65	122	10	2	Bxo	2	B										
11 Jul	N05W80	123	plage														
12 Jul	N05W95	125	plage														
										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)

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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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