Solar activity was very low throughout the period. Three spotted regions populated the disk at various times during the summary period. Region 2767 (S21, L=200, class/area Hsx/120 on 26 Jul) maintained an H-type configuration through the period and was quiet and stable. Region 2768 (N26, L=111, class/area Hsx/020 on 30 Jul) formed on the disk on 28 Jul and decayed to plage by 02 Aug. It was quiet and stable. Region 2769 (N26, L=059, class/area Axx/010 on 02 Aug) quietly rotated onto the disk.

An eruptive prominence was observed off the SE limb about midday on 31 Jul. A slow-moving CME was subsequently observed, but was determined to not have an Earth-directed component. No other CMEs or activity of note was observed during the summary period.

No proton events were observed at geosynchronous orbit.

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

Geomagnetic field activity was at quiet levels through midday on 02 Aug when unsettled activity was observed due to positive polarity CH HSS influence. Solar wind observations indicated nominal conditions through about 02/0600 UTC when a CIR, in advance of a positive polalarity CH HSS, became evident in the data. Wind speeds increased from about 310 km/s to near 530 km/s, total field increased to 12 nT and the Bz component reached -10 nT. The geomagnetic field reacted with mostly unsettled conditions.

Space Weather Outlook 03 August - 29 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 at normal to moderate levels throughout the outlook period.

Geomagnetic field activity is expected to be at unsettled to active levels through 03 Aug with a chance for G1 (Minor) geomagnetic storm levels due to recurrent CH HSS effects. Quiet to unsettled levels are expected on 04 Aug as HSS effects persist. Unsettled levels are expected once again on 29 Aug. Quiet levels are expected to prevail for the remainder of the period, 05-28 Aug.



	Radio	Sun	Sunspot	X-ray		Flares									
	Flux	spot	Area	Background		X-ra	ıy		Optical						
Date	10.7cm	No.	(10 ⁻⁶ hemi.)	Flux	С	Μ	Χ	S	1	2	3	4			
27 July	71	11	70	A3.2	0	0	0	0	0	0	0	0			
28 July	72	22	50	A3.1	0	0	0	0	0	0	0	0			
29 July	73	22	85	A2.4	0	0	0	0	0	0	0	0			
30 July	73	22	110	A2.5	0	0	0	0	0	0	0	0			
31 July	72	23	70	A2.8	0	0	0	0	0	0	0	0			
01 August	72	22	60	A3.3	0	0	0	0	0	0	0	0			
02 August	73	22	60	A3.4	0	0	0	0	0	0	0	0			

Daily Solar Data

Daily Particle Data

	Protor (protons/c	n Fluence m ² -day -sr)	Electron Fluence (electrons/cm ² -day -sr)
Date	>1 MeV	>10 MeV	>2MeV
27 July	6.0e+04	4.7e+04	8.9e+06
28 July	5.7e+04	4.6e+04	5.1e+06
29 July	6.4e+04	4.6e+04	6.1e+06
30 July	5.6e+04	4.6e+04	2.4e+06
31 July	7.0e+04	4.7e+04	2.6e+06
01 August	7.4e+04	4.7e+04	3.7e+06
02 August	1.0e+05	4.7e+04	2.3e+06

Daily Geomagnetic Data

		Middle Latitude]	High Latitude	Estimated			
		Fredericksburg		College	Planetary			
Date	Α	K-indices	А	K-indices	А	K-indices		
27 July	5	2-1-1-1-2-1-2-1	2	1-1-1-0-0-0-0-1	4	1-1-1-1-1-1-1-1		
28 July	0	2-0-1-1-2-1-0-0	2	1-1-0-0-1-1-1-0	5	2-1-1-1-1-1-1		
29 July	4	0-1-2-1-2-1-1-1	2	0-1-2-0-1-1-0-1	5	2-1-2-1-1-1-1-1		
30 July	5	2-1-3-1-1-1-1-1	3	1-1-2-2-1-0-0-0	4	1-1-2-1-0-0-0-1		
31 July	5	2-1-0-1-3-1-1-2	5	0-1-0-2-4-1-0-1	4	1-1-1-2-1-1-1		
01 August	3	0-0-0-1-2-1-2-1	1	0-1-1-0-1-0-0-0	3	0-1-0-1-1-1-1-1		
02 August	9	0-1-2-3-3-2-2-3	21	0-1-1-5-5-5-2-2	3	1-1-1-3-3-3-2-3		



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

Alerts and Warnings Issued





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
03 Aug	73	14	4	17 Aug	69	5	2
04	71	8	3	18	71	5	2
05	71	5	2	19	71	5	2
06	71	5	2	20	71	5	2
07	71	5	2	21	71	5	2
08	71	5	2	22	71	5	2
09	71	5	2	23	71	5	2
10	71	5	2	24	71	5	2
11	71	5	2	25	71	5	2
12	69	5	2	26	73	5	2
13	69	5	2	27	73	5	2
14	69	5	2	28	73	5	2
15	69	5	2	29	73	12	4
16	69	5	2				



				E	nerge	tic Ev	ents					
		Time	X-ray			Opti	cal Information	Р	eak	Sweep Free		
	Half				Integ	Imp/	Location	Rgn	Radi	io Flux	Inte	nsity
Date	Begin	Max	Max	Class	Flux	Brtns	Lat CMD	#	245	2695	II	IV
No E	No Events Observed											
					Fla	re List	ţ					
								Optic	al			
	Time			Time X-ray Imp/ Loca				ocation	R	gn		
Date	Begi	n N	Iax	End		Class	Brtns	L	at CMD	ŧ	ŧ	
31 Jul	B1912	2 U19	913	B1914		A1.0						
01 Aug	1030) 10	040	1053		B1.9						



	Locatio	on	Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	2	K-ray			0	ptica	1	
Date	Lat CMD	Lon 1	0 ⁻⁶ hemi.	(helio)	Class	Count	Class	С	Μ	Χ	S	1	2	3	4
		D ! .													
		Kegi0	n 2/6/												
21 Jul	S22E72	197	80	1	Hsx	1	А								
22 Jul	S22E58	200	120	1	Hsx	1	А								
23 Jul	S22E44	200	120	3	Hsx	1	А								
24 Jul	S21E31	200	120	3	Hsx	1	А								
25 Jul	S21E18	200	120	3	Hsx	1	А								
26 Jul	S21E05	200	120	3	Hsx	1	А								
27 Jul	S20W07	198	70	1	Hsx	1	А								
28 Jul	S20W21	198	40	1	Hsx	1	А								
29 Jul	S16W35	200	80	2	Hsx	1	А								
30 Jul	S20W46	197	90	2	Hsx	1	А								
31 Jul	S21W60	198	60	1	Hsx	1	А								
01 Aug	S21W73	198	50	1	Hsx	1	А								
02 Aug	S22W85	197	50	2	Hsx	1	А								
-								0	0	0	0	0	0	0	0
Still on	Disk.														
Absolut	e heliograp	hic long	gitude: 2	00											
		Regio	n 2768												
28 Jul	N25E65	113	10	1	Axx	1	А								
29 Jul	N20E54	110	5		Axx	1	А								
30 Jul	N26E40	111	20		Hsx	1	А								
31 Jul	N26E27	111	10	1	Bxo	2	В								
01 Aug	N26E14	111	10	1	Axx	1	А								
02 Aug	N26W00	112	plage												
5								0	0	0	0	0	0	0	0
Still on	Disk.														
Absolut	e heliograp	hic long	gitude: 1	12											
		-													
		Regio	n 2769												
02 Aug	N26E53	59	10	1	Axx	1	А								
- 0			-		-			0	0	0	0	0	0	0	0
Still on	Disk.														

Region Summary

Absolute heliographic longitude: 59



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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