Solar activity was at very low levels on 10-14 and 16 Aug. Low levels were observed on 15 Aug due to a C2 flare from Region 2770 (N23, L=24, class/area Cso/70 on 07 Aug.

Coronal dimming near S30E30 was observed in GOES-16 SUVI 195 imagery around 16/1700 UTC. An associated CME signature was observed in LASCO C2 imagery at 16/1812 UTC and in STEREO-A COR2 coronagraph imagery beginning at 16/1824 UTC. Analysis of this event remains underway at the time of this writing. No other Earth-directed CME activity was detected 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 10-11 Aug due to coronal hole high speed stream influence. The maximum flux of the period was 2,950 pfu observed at 10/1550 UTC. Normal to moderate levels were observed on 12-16 Aug.

Geomagnetic field activity was at quiet levels throughout the period.

Space Weather Outlook 17 August - 12 September 2020

Solar activity is expected to be at very low levels throughout the 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 01-07 Sep due to recurrent coronal hole high speed stream influence. Normal to moderate levels are expected for the remainder of the outlook period.

Geomagnetic field activity is expected to be unsettled to active on 30 Aug, unsettled on 19-20 Aug and 29, 31 Aug-all due to recurrent coronal hole high speed stream influence. Quiet levels are expected for the remainder of the outlook period.



Daily Solar Data

	Radio	Sun	1		Flares									
	Flux	spot	Area	Background		X-ray			Optical					
Date	10.7cm	No.	(10 ⁻⁶ hemi.)	Flux	C	M	X	S	1	2	3	4		
10 August	74	12	20	A2.5	0	0	0	0	0	0	0	0		
11 August	74	12	10	A3.0	0	0	0	2	0	0	0	0		
12 August	73	24	20	A2.4	0	0	0	0	0	0	0	0		
13 August	72	11	10	A1.8	0	0	0	0	0	0	0	0		
14 August	71	0	0	A1.3	0	0	0	0	0	0	0	0		
15 August	71	0	0	A0.0	1	0	0	1	0	0	0	0		
16 August	71	0	0	A0.0	0	0	0	0	0	0	0	0		

Daily Particle Data

		Fluence	Electron Fluence
	(protons/c	m ² -day-sr)	(electrons/cm ² -day -sr)
Date	>1 MeV	>10 MeV	>2MeV
10 August	6.4e + 04	4.9e+04	1.1e+08
11 August	6.9e + 04	4.9e+04	1.0e+08
12 August	1.3e+05	4.8e + 04	4.1e+07
13 August	1.1e+05	4.7e+04	2.9e+07
14 August	1.3e+05	4.6e+04	2.7e+07
15 August	1.7e + 05	4.6e+04	1.4e+07
16 August	1.6e + 05	4.6e+04	6.6e+06

Daily Geomagnetic Data

	1	Middle Latitude		High Latitude	Estimated			
		Fredericksburg		College	Planetary			
Date	A	K-indices	A	K-indices	A	K-indices		
10 August	3	1-1-0-1-2-1-1-0	1	1-1-0-0-0-0-0	3	1-1-1-1-1-0-1		
11 August	3	1-1-1-0-2-0-1-1	0	0-0-0-0-0-0-0	3	1-1-0-0-1-0-0-1		
12 August	3	0-2-1-1-2-1-1-0	3	0-1-1-2-2-0-0-0	3	0-1-1-1-1-1-0		
13 August	5	1-1-1-3-1-1-1	0	1-0-0-0-0-0-0	4	1-1-0-1-1-1-0-1		
14 August	3	0-2-1-1-2-1-1-0	0	0-1-0-0-0-0-0	4	1-2-1-0-1-1-1		
15 August	3	0-0-2-1-2-1-2-0	1	0-0-2-0-0-0-0	3	0-0-1-1-1-0-1-1		
16 August	5	0-2-1-1-2-2-2-1	2	1-1-1-0-0-0-1	4	1-2-1-1-1-1-1		

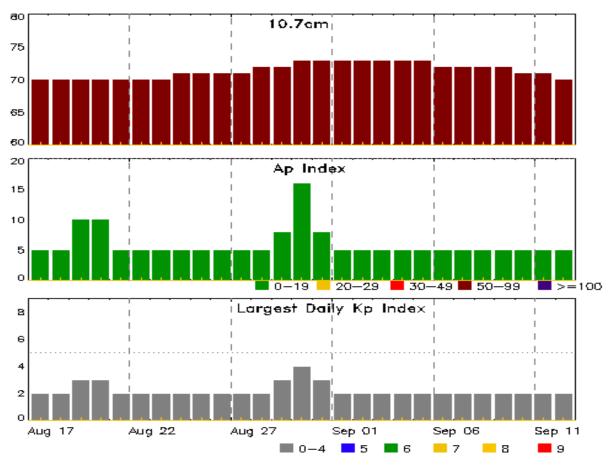


Alerts and Warnings Issued

Date & Time		Date & Time
of Issue UTC	Type of Alert or Warning	of Event UTC
10 Aug 0942	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000p	05/1010 fu
11 Aug 1007	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000p	05/1010 fu



Twenty-seven Day Outlook



Date	Radio Flux 10.7cm	Planetary A Index	Largest Kp Index	Date	Radio Flux 10.7cm	-	Largest Kp Index
17 Aug	70	5	2	31 Aug	73	8	3
18	70	5	2	01 Sep	73	5	2
19	70	10	3	02	73	5	2
20	70	10	3	03	73	5	2
21	70	5	2	04	73	5	2
22	70	5	2	05	73	5	2
23	70	5	2	06	72	5	2
24	71	5	2	07	72	5	2
25	71	5	2	08	72	5	2
26	71	5	2	09	72	5	2
27	71	5	2	10	71	5	2
28	72	5	2	11	71	5	2
29	72	8	3	12	70	5	2
30	73	16	4				



Energetic Events

		Time		X-ray		Optio	cal Informat	P	eak	Sweep Freq		
			Half		Integ	Imp/	Location	Rgn	Radi	o Flux	Intensity	
Date	Begin	Max	Max	Class	Flux	Brtns	Lat CMD	#	245	2695	II	IV

No Events Observed

Flare List

					ı	Optical	
		Time		X-ray	Imp/	Location	Rgn
Date	Begin	Max	End	Class	Brtns	Lat CMD	#
10 Aug	2347	2352	2358	B2.3			
11 Aug	0848	0855	0904	B1.0			
11 Aug	1632	1659	1717	B2.6			2770
11 Aug	1643	1644	1650		SF	N26W24	2770
11 Aug	1657	1659	1704		SF	N22W31	2770
11 Aug	1934	1941	1947	B1.0			
11 Aug	2325	2335	2341	B1.9			
12 Aug	0137	0149	0153	B2.0			
12 Aug	0158	0202	0208	B1.4			
12 Aug	0217	0221	0225	B1.0			
12 Aug	0344	0351	0400	B1.0			
15 Aug	0632	0647	0700	C2.0	SF	N26W70	2770
16 Aug	0511	0516	0521	A6.8			2770
16 Aug	1712	1726	1736	B1.2			



Region Summary

	Location Sunspot Characteristics							Flares							
		Helio	Area	Extent			Mag	X	-ray			0	ptica	ıl	
Date	Lat CMD	Lon	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
		Dani	or 2760												
		_	on 2769												
02 Aug	N26E53	59	10	1	Axx	1	A								
03 Aug	N27E41	58	10	2	Axx	2	A								
04 Aug		59	plage												
05 Aug		60	plage												
06 Aug		60	plage												
07 Aug		61	plage												
08 Aug		62	plage												
09 Aug		63	plage												
10 Aug	N27W57	64	plage												
11 Aug	N27W71	64	plage												
12 Aug	N27W85	65	plage												
								0	0	0	0	0	0	0	0
	West Lim														
Absolut	e heliograp	hic lon	gitude: 6	0											
		Regio	on 2770												
03 Aug	N21E72	25	60	1	Hsx	1	A								
04 Aug	N23E60	26	50	10	Cso	2	В								
05 Aug		24	160	8	Cso	3	В								
06 Aug		23	70	6	Cso	4	В								
07 Aug		24	70	6	Cso	4	В								
08 Aug		24	50	1	Hsx	1	A	1			1				
09 Aug		24	30	4	Cso	3	В								
10 Aug	N23W17	24	20	2	Hrx	2	A								
11 Aug	N23W30	23	10	1	Axx	2	A				2				
12 Aug	N23W44	23	10	1	Axx	1	A								
13 Aug	N22W56	22	plage												
14 Aug	N26W71	24	plage												
15 Aug	N26W85	25	plage					1			1				
0								2	0	0	4	0	0	0	0
Crossed	West Lim	h													

Crossed West Limb. Absolute heliographic longitude: 24



Region Summary - continued

	Location		Su	Sunspot Characteristics						Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X	K-ray		Optical						
Date	Lat CMD	Lon 1	10 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4		
	Region 2771																
12 Aug	S18E43	297	10		Bxo	3	В										
13 Aug	S18E31	296	10	1	Axx	1	A										
14 Aug	S18E17	297	plage														
15 Aug	S18E03	297	plage														
16 Aug	S18W11	298	plage					0	0	0	0	0	0	0	0		

Still on Disk. Absolute heliographic longitude: 297



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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