Solar activity was very low for the highlight period. No spotted regions were present on the visible disk. There were no Earth-directed CMEs observed during the 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 on 24-29 Aug. High levels were observed on 30 Aug with a peak flux of 2,800 pfu observed at 30/1845 UTC.

Geomagnetic field activity was at quiet levels on 24-26 Aug under a nominal solar wind environment. Activity levels increased to unsettled on 27 Aug as a positive polarity CH HSS moved into a geoeffective position. G1 (minor) storm levels were observed on 28 Aug with unsettled to active conditions observed on 29-30 Aug, all due to positive polarity CH HSS influences. During this period of activity, solar wind speeds reached a peak of 530 km/s at 29/0631 UTC, total field reached a maximum of 11nt on mid to late 28 Aug while the Bz component reached a maximum southward extent of -8 nT during that same time frame. Phi angle was in a mostly negative solar sector through about midday on 25 Aug when it switched to a predominately positive orientation through the remainder of the period.

Space Weather Outlook 31 August - 26 September 2020

Solar activity is expected to be very low for 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 moderate to high levels on 31 Aug - 07 Sep and again on 26 Sep due to recurrent CH HSS influences. The remainder of the period is expected to be at normal to moderate levels.

Geomagnetic field activity is expected to be at unsettled to active levels on 31 Aug - 02 Sep, unsettled levels on 18-19 Sep and unsettled to active levels on 23-26 Sep, all due to recurrent CH HSS influences. The remainder of the outlook period is expected to be at quiet levels.



Duly Sour Dulu												
Radio	Sun	Sunspot	X-ray			I	Flares					
Flux	spot	Area	Background		X-1	ay		0	Optic	al		
10.7cm	No.	(10 ⁻⁶ hemi.)	Flux	(C N	1 X	S	1	2	3	4	
70	0	0	A0.0	0	0	0	0	0	0	0	0	
71	0	0	A0.0	0	0	0	0	0	0	0	0	
70	0	0	A0.0	0	0	0	0	0	0	0	0	
70	0	0	A0.0	0	0	0	0	0	0	0	0	
70	0	0	A0.0	0	0	0	0	0	0	0	0	
70	0	0	A0.0	0	0	0	0	0	0	0	0	
70	0	0	A1.2	0	0	0	0	0	0	0	0	
	Flux 10.7cm 70 71 70 70 70 70 70 70	Flux spot 10.7cm No. 70 0 71 0 70 0 70 0 70 0 70 0 70 0 70 0 70 0 70 0 70 0	Radio Sun Sunspot Flux spot Area 10.7cm No. (10 ⁻⁶ hemi.) 70 0 0 71 0 0 70 0 0 70 0 0 70 0 0 70 0 0 70 0 0 70 0 0 70 0 0 70 0 0 70 0 0 70 0 0 70 0 0 70 0 0	Radio Sun Sunspot X-ray Flux spot Area Background 10.7cm No. (10 ⁻⁶ hemi.) Flux 70 0 0 A0.0 71 0 0 A0.0 70 0 0 A0.0	Radio Sun Sunspot X-ray Flux spot Area Background 10.7cm No. (10 ⁻⁶ hemi.) Flux O 70 0 0 A0.0 0 71 0 0 A0.0 0 70 0 0 A0.0 0	Radio Sun Sunspot X-ray X-ray <th< td=""><td>Radio Sun Sunspot X-ray Image: Constraint of the system X-ray</td><td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td><td>Radio Sun Sunspot X-ray Flares Flux spot Area Background X-ray </td><td>Radio Sun Sunspot X-ray Flares Flux spot Area Background $X-ray$ $X-ray$ <math>Optic 10.7cm No. $(10^{-6}$ hemi.) Flux C M X S 1 2 70 0 0 A0.0 0 0 0 0 0 0 0 71 0 0 A0.0 0 </math></td><td>Radio Sun Sunspot X-ray Flares $X-ray$ $X-ray$ $X-ray$ $X-ray$ $X-ray$ $Dptical$ 10.7cm No. $(10^{-6}$ hemi.) Flux C M X S 1 2 3 70 0 0 A0.0 0</td></th<>	Radio Sun Sunspot X-ray Image: Constraint of the system X-ray	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Radio Sun Sunspot X-ray Flares Flux spot Area Background X-ray	Radio Sun Sunspot X-ray Flares Flux spot Area Background $X-ray$ $X-ray$ $Optic 10.7cm No. (10^{-6} hemi.) Flux C M X S 1 2 70 0 0 A0.0 0 0 0 0 0 0 0 71 0 0 A0.0 0 $	Radio Sun Sunspot X-ray Flares $X-ray$ $X-ray$ $X-ray$ $X-ray$ $X-ray$ $Dptical$ 10.7cm No. $(10^{-6}$ hemi.) Flux C M X S 1 2 3 70 0 0 A0.0 0	

Daily Solar Data

Daily Particle Data

		n Fluence m ² -day -sr)	Electron Fluence (electrons/cm ² -day -sr)
Date	>1 MeV	>10 MeV	>2MeV
24 August	5.9e+04	4.7e+04	1.4e+06
25 August	9.3e+04	4.6e+04	1.3e+06
26 August	1.2e+05	4.5e+04	1.2e+06
27 August	7.7e+04	4.5e+04	1.4e+06
28 August	3.2e+05	4.6e+04	1.6e+06
29 August	8.2e+04	4.6e+04	2.5e+07
30 August	9.0e+04	4.6e+04	9.9e+07

Daily Geomagnetic Data

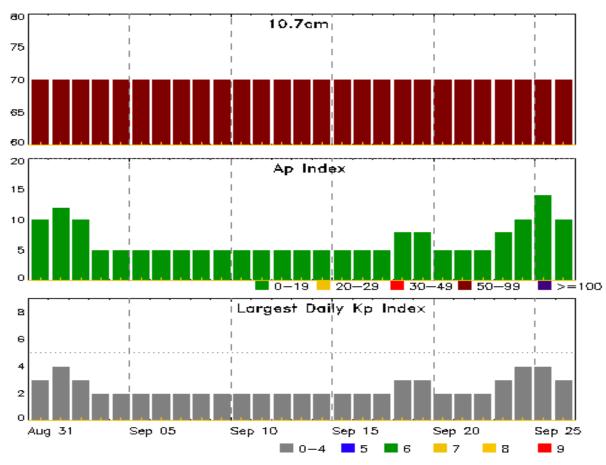
]	Middle Latitude		High Latitude	Estimated			
		Fredericksburg		College		Planetary		
Date	Α	K-indices	А	K-indices	А	K-indices		
24 August	3	1-1-1-2-0-1-0	1	2-1-0-0-0-0-0-0	3	1-1-0-1-1-0-0-0		
25 August	3	1-1-1-1-1-1-1	2	1-1-0-1-0-0-1-0	4	1-1-1-1-1-1-1-1		
26 August	7	2-2-1-3-2-2-1-2	9	1-1-1-5-1-1-1-1	7	2-2-1-2-1-2-2-2		
27 August	7	2-1-3-2-3-1-1-1	15	2-1-3-2-6-1-1-1	8	3-2-2-3-1-1-1		
28 August	8	0-0-1-2-2-4-3-2	18	0-1-1-4-4-6-1-1	10	0-0-1-2-2-5-2-3		
29 August	14	3-3-4-3-2-1-3-3	21	2-3-5-6-2-1-2-1	14	3-3-4-3-1-2-3-3		
30 August	8	2-3-2-2-1-1-3	13	2-3-3-3-4-3-1-1	7	2-4-2-2-2-1-3		



Date & Time		Date & Time
of Issue UTC	Type of Alert or Warning	of Event UTC
26 Aug 1050	WARNING: Geomagnetic $K = 4$	26/1049 - 1500
27 Aug 1313	WARNING: Geomagnetic $K = 4$	27/1313 - 2359
28 Aug 1632	WARNING: Geomagnetic $K = 4$	28/1632 - 2359
28 Aug 1646	ALERT: Geomagnetic $K = 4$	28/1643
28 Aug 1800	ALERT: Geomagnetic $K = 5$	28/1759
28 Aug 1800	WARNING: Geomagnetic $K = 5$	28/1759 - 2359
28 Aug 2343	EXTENDED WARNING: Geomagnetic K = 4	28/1632 - 29/0600
29 Aug 0725	WARNING: Geomagnetic $K = 4$	29/0725 - 1500
29 Aug 0902	ALERT: Geomagnetic $K = 4$	29/0859
29 Aug 2000	WARNING: Geomagnetic $K = 4$	29/2000 - 30/0900
30 Aug 1727	ALERT: Electron 2MeV Integral Flux >= 1000pfu	30/1325

Alerts and Warnings Issued





Twenty-seven Day Outlook

Date	Radio Flux 10.7cm	Planetary A Index	Largest Kp Index	Date	Radio Flux 10.7cm	•	Largest Kp Index
31 Aug	70	10	3	14 Sep	70	5	2
01 Sep	70	12	4	15	70	5	2
02	70	10	3	16	70	5	2
03	70	5	2	17	70	5	2
04	70	5	2	18	70	8	3
05	70	5	2	19	70	8	3
06	70	5	2	20	70	5	2
07	70	5	2	21	70	5	2
08	70	5	2	22	70	5	2
09	70	5	2	23	70	8	3
10	70	5	2	24	70	10	4
11	70	5	2	25	70	14	4
12	70	5	2	26	70	10	3
13	70	5	2				



				E	nerge	tic Ev	ents					
		Time		X	X-ray Optical Information			Р	Peak		p Freq	
			Half		Integ	Imp/	Location	Rgn	Radi	o Flux	Inter	nsity
Date	Begin	Max	Max	Class	Flux	Brtns	Lat CMD	#	245	2695	II	IV
No E	vents O	bserved	1									
					Fla	re List	ţ					
								Optic	al			
	Time					X-ray	Imp/	L	ocation	R	gn	
Date No I	Begi Flares Ob	in N served	/lax	End		Class	Brtns	La	at CMD	ŧ	ŧ	



Region Summary													
	Location Sunspot Characteristics]	Flares	5				
		Helio	Area	Extent	Spot	Spot	Mag	X-ray		0	ptica	1	
Date	Lat CMD	Lon 10) ⁻⁶ hemi.	(helio)	Class	Count	Class	С М Х	S	1	2	3	4

No Active Regions



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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