Solar activity was very low with no spotted groups on the visible disk.

No proton events were observed at geosynchronous orbit.

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

Geomagnetic field activity reached active levels on 05-06 Jan due to recurrent coronal hole high speed stream influences (CH HSS). Quiet to unsettled levels were observed during the remainder of the highlight period.

Space Weather Outlook 11 January - 06 February 2021

Solar activity is expected to be at very low levels during the outlook 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 20-22 Jan due to recurrent CH HSS influences. The remainder of the outlook period is expected to be at normal to moderate levels.

Geomagnetic field activity is expected to reach active levels on 17-20 Jan and 01-02 Feb due to recurrent CH HSS influences. Unsettled levels are expected on 11 Jan and 25-26 Jan. Quiet levels are expected for the remainder of the outlook period.



Daily Solar Data

	Radio	Sun	Sunspot	Sunspot X-ray Area Background			F	Flares	lares					
	Flux	spot	Area			X-ray			Optical					
Date	10.7cm	No.	(10 ⁻⁶ hemi.)	Flux	(C M	I X	S	1	2	3	4		
04 January	78	0	0	A2.7	0	0	0	0	0	0	0	0		
05 January	75	0	0	A2.0	0	0	0	0	0	0	0	0		
06 January	74	0	0	A0.0	0	0	0	0	0	0	0	0		
07 January	75	0	0	A1.0	0	0	0	0	0	0	0	0		
08 January	75	0	0	A1.4	0	0	0	0	0	0	0	0		
09 January	74	0	0	A1.2	0	0	0	0	0	0	0	0		
10 January	73	0	0	A0.0	0	0	0	0	0	0	0	0		

Daily Particle Data

		Fluence m ² -day-sr)	Electron Fluence (electrons/cm ² -day -sr)
Date	>1 MeV	>10 MeV	>2MeV
04 January	1.9e+05	4.5e+04	8.3e+06
05 January	5.4e + 06	4.5e+04	5.4e+06
06 January	1.7e + 05	4.4e+04	1.3e+06
07 January	8.8e + 04	4.5e + 04	1.6e+06
08 January	1.8e + 05	4.5e+04	2.3e+06
09 January	1.7e + 05	4.5e+04	2.3e+06
10 January	4.5e+05	4.4e+04	2.5e+06

Daily Geomagnetic Data

		Middle Latitude		High Latitude	Estimated				
		Fredericksburg		College	Planetary				
Date	A	K-indices	A	A K-indices		K-indices			
04 January	3	0-0-1-1-2-2-1-1	2	0-0-2-2-0-0-0	3	1-0-1-1-0-0-1-1			
05 January	9	1-0-1-0-4-3-2-3	14	0-0-0-0-6-4-1-1	11	2-1-1-1-4-3-2-3			
06 January	9	3-2-4-2-2-1-1-0	16	2-3-4-4-3-2-0	11	3-3-4-2-2-1-1-1			
07 January	4	1-2-1-0-1-1-1-2	3	1-1-1-2-1-0-0-1	6	1-2-1-1-1-1-3			
08 January	1	0-0-0-0-1-1-1-0	0	1-0-0-0-0-0-0	2	1-0-0-0-1-0-0-0			
09 January	2	1-1-0-1-1-1-0-0	0	0-0-0-0-0-0-0	3	1-1-1-1-0-0-0-0			
10 January	3	0-1-1-1-2-1-0	1	0-0-0-1-1-0-0-0	3	1-1-1-0-0-1-1-1			

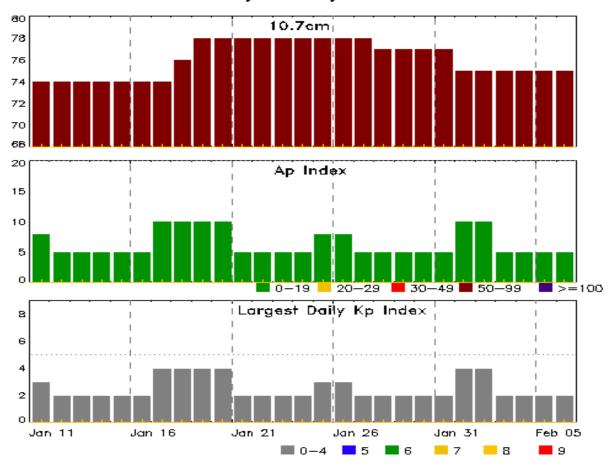


Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
05 Jan 1338	WARNING: Geomagnetic K = 4	05/1339 - 06/0300
05 Jan 1356	ALERT: Geomagnetic $K = 4$	05/1348
05 Jan 1414	WARNING: Geomagnetic $K = 5$	05/1414 - 1800
06 Jan 0529	WARNING: Geomagnetic $K = 4$	06/0530 - 1200
06 Jan 0802	ALERT: Geomagnetic $K = 4$	06/0801



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
11 Jan	74	8	3	25 Jan	78	8	3
12	74	5	2	26	78	8	3
13	74	5	2	27	78	5	2
14	74	5	2	28	77	5	2
15	74	5	2	29	77	5	2
16	74	5	2	30	77	5	2
17	74	10	4	31	77	5	2
18	76	10	4	01 Feb	75	10	4
19	78	10	4	02	75	10	4
20	78	10	4	03	75	5	2
21	78	5	2	04	75	5	2
22	78	5	2	05	75	5	2
23	78	5	2	06	75	5	2
24	78	5	2				



Energetic Events

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

No Events Observed

Flare List

					Optical					
		Time			X-ray	Imp/	Location	Rgn		
Date	Begin	Max	End		Class	Brtns	Lat CMD	#		
10 Jan	B1830	U1831	A1832		A1.0					



Region Summary

	Location	Su	nspot C	haracte	eristics]	Flares	5				
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical			ıl	
Date	Lat CMD	Lon 1	0 ⁻⁶ hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
	Region 2795														
23 Dec	S17E67	319	40	9	Cro	6	В								
24 Dec	S18E54	318	200	9	Dao	4	В								
25 Dec	S17E41	318	180	10	Dao	9	В								
26 Dec	S17E29	317	180	9	Dao	10	В								
27 Dec	S17E15	318	150	9	Dso	5	В								
28 Dec	S17E02	318	120	9	Dao	5	В								
29 Dec	S19W10	317	130	10	Cao	5	В				1				
30 Dec	S18W25	318	40	10	Cro	5	В								
31 Dec	S18W38	316	30	10	Bxo	4	В								
01 Jan	S17W51	318	10	7	Bxo	2	В								
02 Jan	S18W68	321	0		Axx	1	A								
03 Jan	S18W81	321	plage												
04 Jan	S18W95	322	plage					0	0	0	1	0	0	0	0

Crossed West Limb. Absolute heliographic longitude: 318



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.

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