Space Weather Highlights
28 April - 04 May 2025

SWPC PRF 2592
05 May 2025

Solar activity reached moderate levels on 29 and 30 Apr due to M-Class flare activity. Region 4078 (N16, L=009, class/area=Cro/20 on 29 Apr) produced an M1.3/1N flare at 29/1002 UTC and an M1.6/1N flare at 29/1057 UTC. Region 4079 (N07, L=242, class/area=Ekc/1210 on 02 May) produced an M1.7 flare at 29/0513 UTC and an M2.0 flare at 30/0751 UTC, the largest of the period. Low levels were obsereved throughout the remainder of the period. No Earth-directed CME resulted from this week's flare activity.

No proton events were observed at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit was at moderate levels on 28 Apr - 01 May, and reached high levels on 02-04 May.

Geomagnetic field activity was at quiet to unsettled levels on 28-29 Apr. Activity increased to active levels on 30 Apr, and reached G1 (Minor) levels on 01-05 May due to negative polarity coronal hole influence.

Space Weather Outlook
05 May - 31 May 2025

Solar activity is expected to be predominently low through the outlook period, with a varying chance for M-class flare activity.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is likely to reach high levels from 05-12 May and 29-31 May. Normal to moderate levels are expected from 13-28 May.

Geomagnetic field activity is likely to reach G1 (Minor) storm levels on 18 May and 29-31 May due to negative polarity coronal hole influence. Periods of active conditions are likely on 05-06 May, 09-11 May, 16-17 May, 19-21 May, and 27 May in response to CH HSS incluences. Quiet to unsettled conditions are expected to prevail throughout the remainder of the period.

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
28 April	154	134	660	C1.0	7	0	0	6	0	0	0	0
29 April	149	105	830	C1.0	12	3	0	10	3	0	0	0
30 April	148	77	1190	B7.6	4	1	0	2	0	1	0	0
01 May	152	59	1290	B7.0	6	0	0	5	0	0	0	0
02 May	152	38	1290	B7.5	8	0	0	2	0	0	0	0
03 May	152	77	1300	B8.0	10	0	0	12	0	0	0	0
04 May	159	92	1350	B8.6	7	0	0	2	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
28 April	4.4e+05	1.5e+04	2.7e+07
29 April	6.3e+05	1.5e+04	2.4e+07
30 April	6.7e+05	1.5e+04	1.3e+07
01 May	7.0e+05	1.5e+04	1.1e+07
02 May	3.2e+05	1.5e+04	2.4e+07
03 May	7.9e+06	1.5e+04	1.6e+08
04 May	2.4e+06	1.7e+04	2.6e+08

Daily Geomagnetic Data

Date	Middle Latitude Fredericksburg		High Latitude College		Estimated Planetary	
	A	K-indices	A	K-indices	A	K-indices
28 April	5	2-0-1-2-2-1-2-1	2	2-1-0-1-0-0-0-0	5	3-1-1-1-1-1-1-1
29 April	6	0-2-2-2-2-2-2-2	7	0-2-3-3-2-1-2-1	6	0-2-2-2-2-1-2-2
30 April	14	3-2-4-4-2-1-2-3	22	2-3-5-6-2-1-2-2	12	4-3-3-3-2-1-2-3
01 May	21	3-3-4-3-4-3-4-4	36	3-4-5-5-5-5-4-4	28	3-4-4-4-4-3-5-5
02 May	24	4-4-4-4-4-3-3-4	68	5-5-5-6-7-6-5-5	39	5-5-4-4-5-5-4-5
03 May	20	4-4-4-4-3-3-2-3	39	5-4-5-6-5-4-3-3	26	5-4-4-5-3-3-3-4
04 May	17	3-3-4-2-3-4-3-3	51	3-4-6-4-6-7-4-3	27	4-3-5-2-4-4-4-4

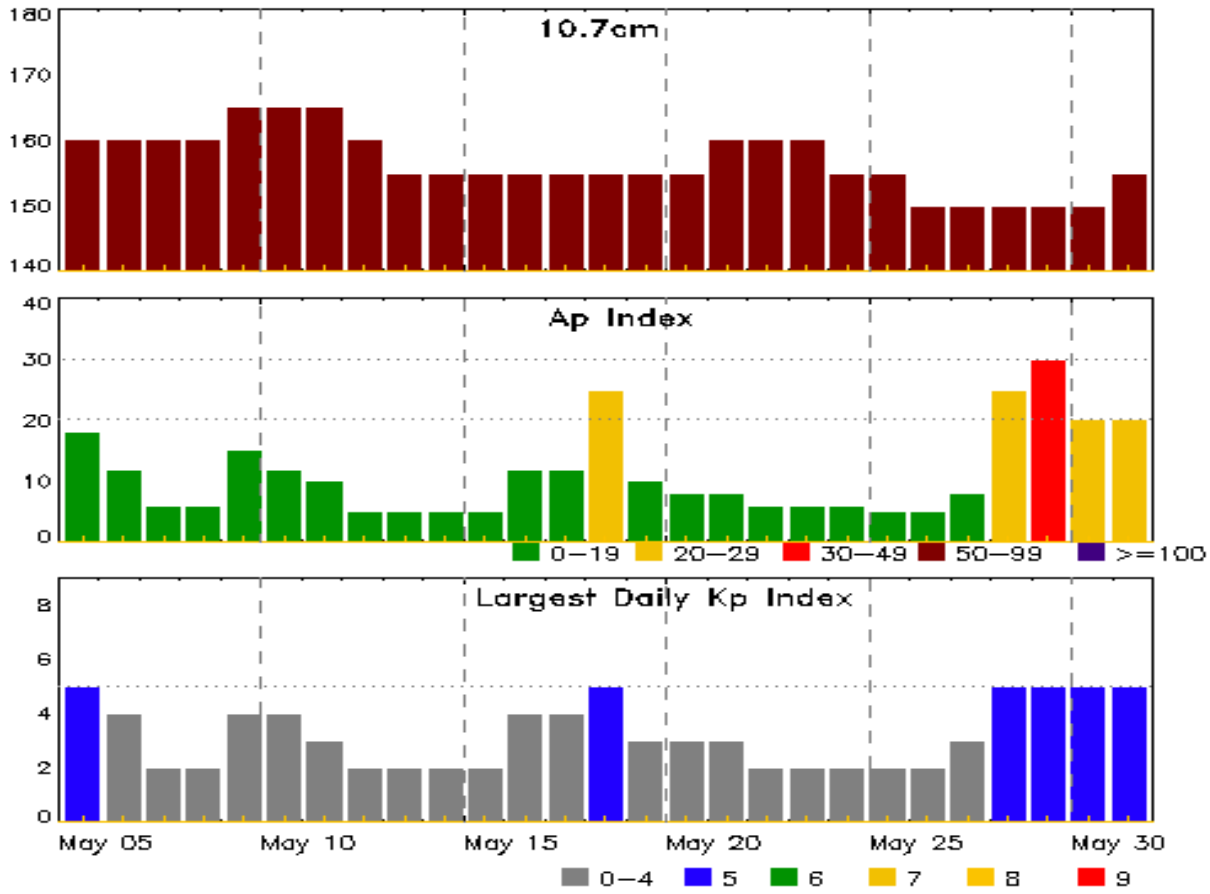
Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
30 Apr 0225	WARNING: Geomagnetic K = 4	30/0225 - 1200
30 Apr 0300	ALERT: Geomagnetic K = 4	
30 Apr 1130	EXTENDED WARNING: Geomagnetic K = 4	30/0225 - 1500
01 May 0343	WARNING: Geomagnetic K = 4	01/0343 - 1200
01 May 0538	ALERT: Geomagnetic K = 4	
01 May 1040	EXTENDED WARNING: Geomagnetic K = 4	01/0343 - 1800
01 May 1352	WARNING: Geomagnetic K = 5	01/1350 - 2359
01 May 1352	EXTENDED WARNING: Geomagnetic K = 4	01/0343 - 02/0600
01 May 1750	WATCH: Geomagnetic Storm Category G1 predicted	
01 May 2023	ALERT: Geomagnetic K = 5	
01 May 2340	ALERT: Geomagnetic K = 5	
01 May 2348	EXTENDED WARNING: Geomagnetic K = 5	01/1350 - 02/0900
01 May 2353	EXTENDED WARNING: Geomagnetic K = 4	01/0343 - 02/1500
02 May 0155	ALERT: Geomagnetic K = 5	
02 May 0206	WARNING: Geomagnetic K = 6	02/0206 - 0900
02 May 0507	ALERT: Geomagnetic K = 5	
02 May 0830	EXTENDED WARNING: Geomagnetic K = 4	01/0343 - 02/2100
02 May 0831	EXTENDED WARNING: Geomagnetic K = 5	01/1350 - 02/1800
02 May 1344	ALERT: Electron 2MeV Integral Flux >= 1000pfu	02/1330
02 May 1440	ALERT: Geomagnetic K = 5	
02 May 1741	EXTENDED WARNING: Geomagnetic K = 5	01/1350 - 03/0600
02 May 1746	EXTENDED WARNING: Geomagnetic K = 4	01/0343 - 03/1200
02 May 1802	ALERT: Geomagnetic K = 5	
02 May 2325	ALERT: Geomagnetic K = 5	
03 May 0056	ALERT: Geomagnetic K = 5	
03 May 0129	EXTENDED WARNING: Geomagnetic K = 4	01/0343 - 03/1800
03 May 0129	EXTENDED WARNING: Geomagnetic K = 5	01/1350 - 03/1200
03 May 0129	WARNING: Geomagnetic K = 6	03/0130 - 0900
03 May 0651	CONTINUED ALERT:	02/1330

Alerts and Warnings Issued

Date & Time of Issue UTC	Type of Alert or Warning	Date & Time of Event UTC
-	Electron 2MeV Integral Flux >= 1000pfu	-
03 May 1032	ALERT: Geomagnetic K = 5	
03 May 1149	EXTENDED WARNING: Geomagnetic K = 5	01/1350 - 03/1800
03 May 1727	EXTENDED WARNING: Geomagnetic K = 4	01/0343 - 04/1200
04 May 0531	CONTINUED ALERT: Electron 2MeV Integral Flux >= 1000pfu	02/1330
04 May 0723	WARNING: Geomagnetic K = 5	04/0722 - 1500
04 May 0723	EXTENDED WARNING: Geomagnetic K = 4	01/0343 - 04/2100
04 May 0753	ALERT: Geomagnetic K = 5	
04 May 1858	EXTENDED WARNING: Geomagnetic K = 4	01/0343 - 05/1200
04 May 2011	WARNING: Geomagnetic K = 5	04/2010 - 05/0600

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
05 May	160	18	5	19 May	155	10	3
06	160	12	4	20	155	8	3
07	160	6	2	21	160	8	3
08	160	6	2	22	160	6	2
09	165	15	4	23	160	6	2
10	165	12	4	24	155	6	2
11	165	10	3	25	155	5	2
12	160	5	2	26	150	5	2
13	155	5	2	27	150	8	3
14	155	5	2	28	150	25	5
15	155	5	2	29	150	30	5
16	155	12	4	30	150	20	5
17	155	12	4	31	155	20	5
18	155	25	5				

Energetic Events

	Time			X-ray		Optical Information			Peak Radio Flux		Sweep Freq Intensity	
Date	Begin	Max	Half Max	Class	Integ Flux	Imp/ Brtns	Location Lat	CMD	Rgn #	245	2695	II	IV
29 Apr	0510	0513	0517	M1.7	0.006	1F	N10E77		4079		110		
29 Apr	0945	1002	1012	M1.3	0.013	1N	N15W50		4078				
29 Apr	1049	1057	1109	M1.6	0.001	1N	N15W51		4078				
30 Apr	0741	0751	0756	M2.0	0.009	2N	N10E60		4079				

Flare List

	Time			Optical			
Date	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
28 Apr	0546	0602	0621	C2.2			4069
28 Apr	B0706	U0707	A0711		SF	N18W22	
28 Apr	B1024	U1024	A1028		SF	N16W39	
28 Apr	1237	1241	1258		SF	S12E14	4075
28 Apr	1659	1709	1720	C1.7	SF	N17W42	4078
28 Apr	2005	2010	2016	C1.4			4078
28 Apr	2140	2152	2201	C3.2			4079
28 Apr	2202	2206	2213		SF	S18E24	4077
28 Apr	2308	2311	2314	C1.7			4079
28 Apr	2320	2323	2326	C1.6			4079
28 Apr	2344	2355	0000	C3.9	SF	S11W44	4070
29 Apr	B0000	0000	0003		SF	S11W42	4070
29 Apr	0413	0419	0421	C1.7			4079
29 Apr	0440	0447	0449	C1.6			4079
29 Apr	0451	0456	0510	C2.4			4079
29 Apr	0510	0513	0517	M1.7	1F	N10E77	4079
29 Apr	0649	0656	0659	C2.2			4079
29 Apr	0924	0931	0935	C1.9	SF	S12E03	4075
29 Apr	0945	1002	1012	M1.3	1N	N15W50	4078
29 Apr	0955	0955	1001		SF	S14W52	4070
29 Apr	1049	1057	1109	M1.6	1N	N15W51	4078
29 Apr	1057	1102	1104		SF	S13W50	4070
29 Apr	1208	1212	1215	C2.7	SF	N10E73	4079
29 Apr	1355	1401	1406	C1.3			4070
29 Apr	1457	1505	1509	C5.3	SN	N10E70	4079
29 Apr	1645	1647	1704		SF	S12W53	4070
29 Apr	1645	1646	1651		SF	S20E09	4077

Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
29 Apr	1723	1726	1731		SF	S19E10	4077
29 Apr	1748	1754	1758	C1.5			4079
29 Apr	1853	1859	1903	C1.2			4070
29 Apr	1924	1926	1951		SF	S20E10	4077
29 Apr	2208	2213	2217	C1.5			4070
29 Apr	2311	2325	2336	C7.3			4065
30 Apr	0725	0735	0741	C1.5			4079
30 Apr	0731	0751	0814	M2.0	2N	N10E60	4079
30 Apr	1119	1125	1132	C1.0	SF	N11E59	4079
30 Apr	1451	1515	1517	C1.6			4079
30 Apr	1501	1531	1549	C2.1	SF	N12E55	4079
01 May	0705	0719	0728	C2.5	SF	N10E45	4079
01 May	1344	1344	1349		SF	N05E49	4079
01 May	1511	1518	1523	C1.1			4079
01 May	1642	1649	1651	C1.4			4079
01 May	1953	1958	2002	C1.3	SF	N02E43	4079
01 May	2054	2101	2105	C1.3			
01 May	2117	2134	2137		SF	N09E43	4079
01 May	2254	2259	2304	C1.8	SF	N13E40	4079
02 May	0323	0336	0343	C1.2			4079
02 May	0416	0422	0427	C1.3			4079
02 May	0617	0631	0635	C1.5	SF	N08E40	4079
02 May	0848	0854	0856	C1.2			4079
02 May	0856	0901	0904	C1.5			4079
02 May	1228	1234	1239	C1.2			4079
02 May	1514	1514	1526		SF	N08E30	4079
02 May	2124	2133	2136	C2.1			4079
02 May	2139	2143	2145	C3.6			4079
03 May	0610	0611	0613		SF	N10E29	4079
03 May	0614	0614	0616		SF	N11E29	4079
03 May	0714	0725	0732	C1.2	SF	N08E17	4079
03 May	0826	0835	0843	C1.8			4079
03 May	1109	1121	1145		SF	N08E25	4079
03 May	1232	1239	1242	C1.5	SF	N10E25	4079
03 May	1249	1250	1254		SF	N10E25	4079
03 May	1401	1409	1411	C2.3	SF	N10E24	4079
03 May	1430	1440	1442	C1.4	SF	N05E21	4079
03 May	1453	1500	1502	C2.0	SF	N10E23	4079

Flare List

Date	Time			Optical			
	Begin	Max	End	X-ray Class	Imp/ Brtns	Location Lat CMD	Rgn #
03 May	1551	1601	1612	C2.1	SF	N08E21	4079
03 May	1649	1654	1656	C1.5	SF	N10E22	4079
03 May	1855	1904	1917	C1.4			4079
03 May	2054	2055	2057		SF	N07E47	4081
03 May	2333	2339	2342	C1.2			4079
04 May	0627	0634	0643	C1.4	SF	N06E41	4081
04 May	0958	1010	1027	C1.7			4082
04 May	1122	1133	1142	C2.4			4082
04 May	1226	1231	1240	C5.4			4082
04 May	1556	1606	1614	C1.4	SF	S12E75	4082
04 May	1614	1627	1631	C1.8			4082
04 May	1740	1746	1749	C1.3			4079

Region Summary

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
			Region 4064												
16 Apr	S08E74	45	80	7	Dao	3	B								
17 Apr	N11E60	47	200	8	Dai	8	B	1							
18 Apr	N11E45	47	350	9	Dki	9	B	2							
19 Apr	N11E32	48	350	9	Dki	9	B								
20 Apr	N11E18	49	330	8	Dki	10	B	1			1				
21 Apr	N11E07	47	340	11	Eki	19	B	1			1				
22 Apr	N11W07	47	250	11	Ehi	18	B				1				
23 Apr	N11W18	45	210	11	Eai	16	B	2			4				
24 Apr	N11W32	46	200	11	Eai	12	B	3			1				
25 Apr	N11W45	46	300	9	Dki	12	B								
26 Apr	N12W59	47	180	6	Dso	5	B	3							
27 Apr	N12W72	47	100	6	Dso	4	B	2			1				
28 Apr	N11W86	48	100	6	Dso	2	B								
								15	0	0	9	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 47

			Region 4065												
17 Apr	S30E63	44	30	2	Hsx	1	A								
18 Apr	S30E47	45	30	1	Hsx	1	A								
19 Apr	S30E36	44	70	3	Dso	6	B	1			1				
20 Apr	S29E25	42	80	3	Dao	4	B	1							
21 Apr	S31E12	42	70	4	Cso	3	B								
22 Apr	S31W02	43	70	2	Hsx	1	A				1				
23 Apr	S31W14	41	70	3	Cso	3	B								
24 Apr	S31W27	41	40	1	Hsx	1	A								
25 Apr	S31W41	42	40	1	Hsx	1	A								
26 Apr	S31W54	42	30	1	Hsx	1	A								
27 Apr	S31W65	40	30	1	Hsx	1	A								
28 Apr	S31W79	41	30	1	Hsx	1	A								
29 Apr	S31W91	39	20	1	Hsx	1	A	1							
								3	0	0	2	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 43

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
			Region 4066												
17 Apr	S05E49	58	40	6	Cai	9	B	1							
18 Apr	S04E33	59	30	7	Cao	7	B	1							
19 Apr	S04E21	59	20	5	Cro	5	B								
20 Apr	S04E08	59	20	2	Cso	4	B								
21 Apr	S05W04	58	10	2	Axx	4	A								
22 Apr	S05W19	60	plage												
23 Apr	S05W33	59	plage												
24 Apr	S05W44	58	10	1	Axx	1	A								
25 Apr	S05W59	60	plage												
26 Apr	S05W74	62	plage												
27 Apr	S05W89	64	plage												
								2	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 58

			Region 4067												
18 Apr	S02E55	38	50	6	Cso	7	B								
19 Apr	S03E42	38	40	6	Cso	5	B								
20 Apr	S03E28	39	40	6	Cso	3	B								
21 Apr	S03E14	40	20	9	Cro	2	B								
22 Apr	S03E01	39	10	9	Bxo	2	B								
23 Apr	S03W19	42	plage												
24 Apr	S03W27	40	10	1	Axx	1	A	1			2				
25 Apr	S03W42	43	plage												
26 Apr	S03W55	42	plage												
27 Apr	S04W68	43	plage												
28 Apr	S04W83	44	plage												
								1	0	0	2	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 39

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
			Region 4068												
20 Apr	S06E82	347	plage					1	1						
21 Apr	S26E62	352	60	4	Dso	3	B								
22 Apr	S26E46	354	70	3	Dso	3	B				1				
23 Apr	S26E35	352	60	3	Dso	3	B								
24 Apr	S26E22	352	50	3	Dso	2	B								
25 Apr	S26E08	353	20	3	Hax	1	A								
26 Apr	S26W05	353	10	1	Axx	1	A								
27 Apr	S25W17	352	10	1	Hrx	1	A								
28 Apr	S25W31	353	10	4	Hrx	2	A								
29 Apr	S24W44	352	10	1	Axx	1	A								
30 Apr	S24W58	353	plage												
01 May	S24W72	354	plage												
02 May	S24W86	355	plage												
								1	1	0	1	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 353

			Region 4069												
22 Apr	S08E07	33	20	3	Cao	4	B				1				
23 Apr	S08W05	31	60	7	Dao	5	B				1				
24 Apr	S09W17	31	40	7	Dao	5	B								
25 Apr	S09W31	32	30	7	Dro	5	B								
26 Apr	S09W45	33	20	3	Cso	3	B								
27 Apr	S09W59	34	10	1	Axx	1	A								
28 Apr	S07W72	34	10	1	Axx	1	A	1							
29 Apr	S07W87	35	plage												
								1	0	0	2	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 31

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
			Region 4070												
22 Apr	S12E38	2	40	4	Cao	4	B								
23 Apr	S12E24	2	70	7	Dai	9	BG	3			4				
24 Apr	S12E14	2	90	6	Dai	7	B	1			1				
25 Apr	S12W00	1	140	6	Dai	7	B								
26 Apr	S12W14	2	110	10	Dsi	6	B				1				
27 Apr	S12W28	3	110	10	Dso	11	B	1			1				
28 Apr	S12W44	5	70	10	Dso	8	BG	1			1				
29 Apr	S12W58	6	70	9	Dso	7	B	3			4				
30 Apr	S12W71	6	50	7	Csi	5	B								
01 May	S12W88	10	10	1	Hrx	1	A								
								9	0	0	12	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 1

			Region 4072												
23 Apr	S18E62	324	80	2	Hsx	1	A								
24 Apr	S18E52	322	50	2	Hsx	1	A								
25 Apr	S18E38	323	60	2	Hsx	1	A								
26 Apr	S19E25	323	50	1	Hsx	4	A	1							
27 Apr	S19E11	324	50	2	Hsx	4	A								
28 Apr	S19W05	326	70	3	Dai	9	B								
29 Apr	S18W18	326	60	4	Dai	5	B								
30 Apr	S18W31	326	20	3	Cai	7	B								
01 May	S19W43	325	10	2	Bxo	3	B								
02 May	S19W57	326	plage												
03 May	S19W71	326	plage												
04 May	S19W85	327	plage												
								1	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 326

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
			Region 4073												
24 Apr	N12E40	334	30	4	Dri	6	B								
25 Apr	N12E26	335	30	4	Dri	6	B	2			1				
26 Apr	N11E13	336	10	4	Bxo	32	B								
27 Apr	N11W00	335	10	5	Bxo	2	B								
28 Apr	N11W14	335	plage												
29 Apr	N11W28	336	plage												
30 Apr	N11W42	337	plage												
01 May	N11W56	338	plage												
02 May	N11W70	339	plage												
03 May	N11W84	339	plage												
								2	0	0	1	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 335

			Region 4074												
25 Apr	S20W59	60	20	3	Cri	4	B								
26 Apr	S20W73	61	20	3	Cri	4	B								
27 Apr	S20W87	62	plage												
								0	0	0	0	0	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 60

			Region 4075												
25 Apr	S11E48	313	10	3	Bxo	4	B								
26 Apr	S11E34	314	plage												
27 Apr	S11E20	315	plage												
28 Apr	S11E06	316	plage								1				
29 Apr	S11W08	316	plage					1			1				
30 Apr	S11W22	317	plage												
01 May	S11W36	318	plage												
02 May	S11W50	319	plage												
03 May	S11W64	319	plage												
04 May	S11W78	320	plage												
								1	0	0	2	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 316

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
			Region 4076												
25 Apr	N06E59	302	80	2	Hsx	1	A								
26 Apr	N05E45	303	60	1	Hsx	1	A								
27 Apr	N05E30	305	80	2	Hsx	1	A								
28 Apr	N06E16	305	90	2	Hsx	1	A								
29 Apr	N06E04	304	80	2	Hsx	1	A								
30 Apr	N06W09	304	70	2	Hsx	1	A								
01 May	N05W23	305	70	2	Hsx	1	A								
02 May	N06W36	305	80	2	Hsx	1	A								
03 May	N06W49	304	70	2	Hsx	1	A								
04 May	N07W63	305	50	1	Hsx	1	A								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 304

			Region 4077												
25 Apr	S17E62	299	50	6	Dao	4	B	2							
26 Apr	S17E47	301	20	3	Cao	4	B								
27 Apr	S16E32	303	20	3	Hrx	4	A								
28 Apr	S17E18	303	20	4	Cro	3	B				1				
29 Apr	S17E04	304	10	1	Axx	1	A				3				
30 Apr	S17W10	305	plage												
01 May	S17W24	306	plage												
02 May	S17W38	307	plage												
03 May	S17W52	307	plage												
04 May	S17W66	308	plage												
								2	0	0	4	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 304

			Region 4078												
28 Apr	N16W48	9	10	3	Bxo	5	B	2			1				
29 Apr	N16W61	9	20	4	Cro	4	B		2			2			
30 Apr	N15W74	9	10	1	Axx	1	A								
01 May	N15W88	10	plage												
								2	2	0	1	2	0	0	0

Crossed West Limb.
Absolute heliographic longitude: 9

Region Summary - continued

	Location		Sunspot Characteristics					Flares							
		Helio	Area	Extent	Spot	Spot	Mag	X-ray			Optical				
Date	Lat CMD	Lon	10^{-6} hemi.	(helio)	Class	Count	Class	C	M	X	S	1	2	3	4
			Region 4079												
28 Apr	N08E76	245	250	4	Hkx	2	A	3							
29 Apr	N08E67	241	560	14	Ehi	5	BG	7	1		2	1			
30 Apr	N08E54	241	1040	14	Ekc	13	BG	4	1		2		1		
01 May	N08E41	241	1200	14	Ekc	14	BGD	5			5				
02 May	N07E27	242	1210	12	Ekc	17	BG	8			2				
03 May	N08E15	240	1200	12	Ekc	32	BG	10			11				
04 May	N08E01	241	1200	13	Ekc	30	BG	1							
								38	2	0	22	1	1	0	0

Still on Disk.
Absolute heliographic longitude: 241

			Region 4080												
03 May	S12W76	331	10	3	Bxo	3	B								
04 May	S12W89	331	10	2	Bxo	2	B								
								0	0	0	0	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 331

			Region 4081												
03 May	N07E44	211	20	1	Hrx	1	A				1				
04 May	N08E30	212	30	4	Dao	4	B	1			1				
								1	0	0	2	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 212

			Region 4082												
04 May	S11E65	177	60	5	Dao	5	B	5			1				
								5	0	0	1	0	0	0	0

Still on Disk.
Absolute heliographic longitude: 177

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.

https://www.swpc.noaa.gov/products/weekly-highlights-and-27-day-forecast -- Current
ftp://ftp.swpc.noaa.gov/pub/warehouse -- Online archive from 1997
https://www.ngdc.noaa.gov/stp/satellite/goes-r.html -- NCEI GOES data textarchive
https://www.swpc.noaa.gov/products/solar-cycle-progression -- Solar Cycle Progression web site
https://www.swpc.noaa.gov/content/contact-us -- Contact and Copyright information
https://www.swpc.noaa.gov/sites/default/files/images/u2/Usr_guide.pdf -- User Guide