

Solar activity was low on 24-25 Mar, moderate on 26-27 Mar and 29 Mar, and high on 28 Mar and 30 Mar. High levels were reached on 28 Mar as the strongest event of the period, an X1.1 (R3-Strong) flare at 28/1521 UTC from yet-to-be-numbered Region 4046 (N05, L=301, class/area=Dho/270 on 30 Mar), was produced on the Sun's eastern limb. Associated with the event was a Type IV radio sweep and a Tenflare (380 sfu). The resulting fast-moving CME was analyzed and modelled. The results suggested the far flank of the CME would pass close, but ultimately miss Earth. High solar activity levels were again reached on 30 Mar due to frequent R1 flares from Region 4048 (S15, L=281, class/area=Eki/300 on 30 Mar). A total of six events were observed, the largest of which was an M1.6 (R1) flare at 30/1642 UTC.

Other activity included Type II radio sweeps on 25 Mar and 26 Mar. Both of these events were associated with non-Earth-directed CME events on or beyond the W. limb.

No proton events were observed at geosynchronous orbit. However, an increase above background was observed two days after the X1.1 flare at 28/1521 UTC from the Sun's eastern limb. Although delayed, the rise in proton flux is likely related to this event.

The greater than 2 MeV electron flux at geosynchronous orbit climbed to high levels on 27-30 Mar. This increase in electron flux was caused by the influence of a strong, positive polarity CH HSS, which began around 26 Mar.

Geomagnetic field activity ranged from quiet to G2 (Moderate) geomagnetic storms. Active conditions on 24 Mar were associated with the passage of a CME that left the Sun on 21 Mar. On 25 Mar active conditions were again observed due to the onset of CIR ahead of a positive polarity CH HSS. Geomagnetic activity increased to G2 (Moderate) levels on 26 Mar as total magnetic field strength reached a brief peak of 29 nT and the Bz component reached as far south as -27 nT. Wind speeds increased from above ~600 km/s on 26 Mar to above ~800 km/s on 27 Mar. The geomagnetic field responded with a mix of active to G1 (Minor) storm conditions. As total magnetic field strength and solar wind speeds declined on 28 Mar, geomagnetic conditions decreased to mostly unsettled to active levels. During the final waning stage of the positive polarity CH, an isolated period of active was last observed early on 29 Mar and only quiet conditions were observed over 30 Mar.

Space Weather Outlook **31 March - 26 April 2025**

Solar activity will continue at a chance for R1-R2 (Minor-Moderate) throughout the outlook period due to multiple complex regions on the visible disk as well as on the Sun's far side that are likely to return. A slight chance exists for R3 (Strong) events over the next three days primarily due to the flare potential from complex regions in the Sun's eastern hemisphere.

No proton events are expected at geosynchronous orbit are likely to remain below the S1 (Minor)



solar radiation storm threshold (>10 MeV proton flux of 10 pfu).

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at high levels on 31 Mar, 06-14 Apr, and 23-26 Apr in response to multiple, recurrent, CH HSSs. The remainder of the outlook period is expected to be at normal to moderate levels.

Geomagnetic field activity is expected to range from quiet to G2 (Moderate) geomagnetic storm conditions. G2 conditions are likely on 05 Apr and 09 Apr; G1 (Minor) conditions are likely over 04 Apr, 08 Apr, and 10 Apr, active conditions are likely over 11 Apr, 13 Apr, and 21-24 Apr; unsettled conditions are likely on 03 Apr, 06-07 Apr, 12 Apr, 14-15 Apr, 17-20 Apr, and 25-26 Apr. All increases in geomagnetic activity are anticipated in response to multiple, recurrent, CH HSSs. The remainder of the outlook period is likely to mostly quiet.



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 |
| 24 March | 156 | 85 | 400 | C1.0 | 6 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| 25 March | 156 | 58 | 440 | C1.1 | 9 | 0 | 0 | 4 | 0 | 0 | 0 | 0 |
| 26 March | 152 | 63 | 415 | C1.2 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 March | 153 | 72 | 180 | C1.2 | 9 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| 28 March | 160 | 80 | 440 | C1.2 | 4 | 3 | 1 | 1 | 0 | 0 | 0 | 0 |
| 29 March | 157 | 107 | 560 | C1.4 | 15 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| 30 March | 171 | 111 | 810 | C1.4 | 12 | 6 | 0 | 12 | 2 | 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 | |
| 24 March | 3.7e+05 | 1.6e+04 | 3.8e+06 | |
| 25 March | 6.5e+05 | 1.5e+04 | 2.8e+06 | |
| 26 March | 2.1e+06 | 1.6e+04 | 1.8e+06 | |
| 27 March | 2.0e+07 | 1.7e+04 | 7.8e+06 | |
| 28 March | 9.3e+06 | 1.7e+04 | 7.0e+07 | |
| 29 March | 3.1e+06 | 1.9e+04 | 1.3e+08 | |
| 30 March | 2.0e+06 | 5.4e+04 | 1.5e+08 | |

Daily Geomagnetic Data

| Date | Middle Latitude Fredericksburg | | High Latitude College | | Estimated Planetary | |
|----------|-----------------------------------|-----------------|--------------------------|-----------------|------------------------|-----------------|
| | A | K-indices | A | K-indices | A | K-indices |
| | | | | | | |
| 24 March | 18 | 4-4-2-3-5-2-2-1 | 29 | 2-4-4-6-5-4-2-2 | 19 | 4-4-3-4-4-3-2-2 |
| 25 March | 13 | 3-2-3-3-3-2-3-3 | 29 | 2-3-4-6-3-5-4-3 | 15 | 3-2-3-3-2-3-4-3 |
| 26 March | 26 | 4-3-2-2-5-4-5-4 | 43 | 4-4-2-4-6-6-5-5 | 46 | 5-4-2-3-6-6-6-5 |
| 27 March | 20 | 3-3-4-3-4-4-3-3 | 47 | 4-3-6-5-6-6-4-3 | 33 | 4-5-5-4-5-5-4-4 |
| 28 March | 13 | 2-3-3-2-3-4-2-2 | 18 | 3-2-4-4-4-3-2-3 | 16 | 3-3-3-2-3-3-3-4 |
| 29 March | 10 | 3-3-1-3-3-2-2-1 | 6 | 3-3-1-2-1-2-0-0 | 9 | 3-4-2-2-2-1-1-1 |
| 30 March | 8 | 2-2-3-2-2-2-2-1 | 5 | 2-1-2-1-2-1-1-1 | 7 | 2-2-3-2-1-1-1-1 |



Alerts and Warnings Issued

| Date & Time of Issue UTC | Type of Alert or Warning | Date & Time of Event UTC |
|---|--|---|
| 24 Mar 0028 | WARNING: Geomagnetic Sudden Impulse expected | 24/0030 - 0130 |
| 24 Mar 0057 | SUMMARY: Geomagnetic Sudden Impulse | 24/0038 |
| 24 Mar 0129 | WARNING: Geomagnetic K = 4 | 24/0129 - 2359 |
| 24 Mar 0235 | ALERT: Geomagnetic K = 4 | |
| 24 Mar 0411 | WARNING: Geomagnetic K = 5 | 24/0410 - 1500 |
| 24 Mar 1107 | WATCH: Geomagnetic Storm Category G2 predicted | |
| 25 Mar 0320 | WARNING: Geomagnetic K = 4 | 25/0330 - 1530 |
| 25 Mar 1250 | ALERT: Type II Radio Emission | 25/1236 |
| 25 Mar 2018 | WARNING: Geomagnetic K = 4 | 25/2017 - 26/1200 |
| 25 Mar 2032 | ALERT: Geomagnetic K = 4 | |
| 25 Mar 2112 | WATCH: Geomagnetic Storm Category G2 predicted | |
| 26 Mar 0132 | WARNING: Geomagnetic K = 5 | 26/0131 - 1200 |
| 26 Mar 0301 | ALERT: Geomagnetic K = 5 | |
| 26 Mar 1112 | ALERT: Type II Radio Emission | 26/0920 |
| 26 Mar 1117 | EXTENDED WARNING: Geomagnetic K = 5 | 26/0131 - 2100 |
| 26 Mar 1117 | EXTENDED WARNING: Geomagnetic K = 4 | 25/2017 - 26/2359 |
| 26 Mar 1338 | WARNING: Geomagnetic K = 6 | 26/1338 - 2100 |
| 26 Mar 1404 | ALERT: Geomagnetic K = 6 | |
| 26 Mar 1658 | ALERT: Geomagnetic K = 5 | |
| 26 Mar 1659 | EXTENDED WARNING: Geomagnetic K = 4 | 25/2017 - 27/1200 |
| 26 Mar 1701 | EXTENDED WARNING: Geomagnetic K = 5 | 26/0131 - 27/0600 |
| 26 Mar 1748 | ALERT: Geomagnetic K = 6 | |
| 26 Mar 2004 | ALERT: Geomagnetic K = 5 | |
| 26 Mar 2016 | ALERT: Geomagnetic K = 6 | |
| 26 Mar 2018 | EXTENDED WARNING: Geomagnetic K = 6 | 26/1338 - 27/0300 |
| 26 Mar 2246 | ALERT: Geomagnetic K = 5 | |
| 27 Mar 0350 | EXTENDED WARNING: Geomagnetic K = 4 | 25/2017 - 27/2359 |
| 27 Mar 0452 | EXTENDED WARNING: Geomagnetic K = 5 | 26/0131 - 27/1800 |
| 27 Mar 0557 | ALERT: Geomagnetic K = 5 | |

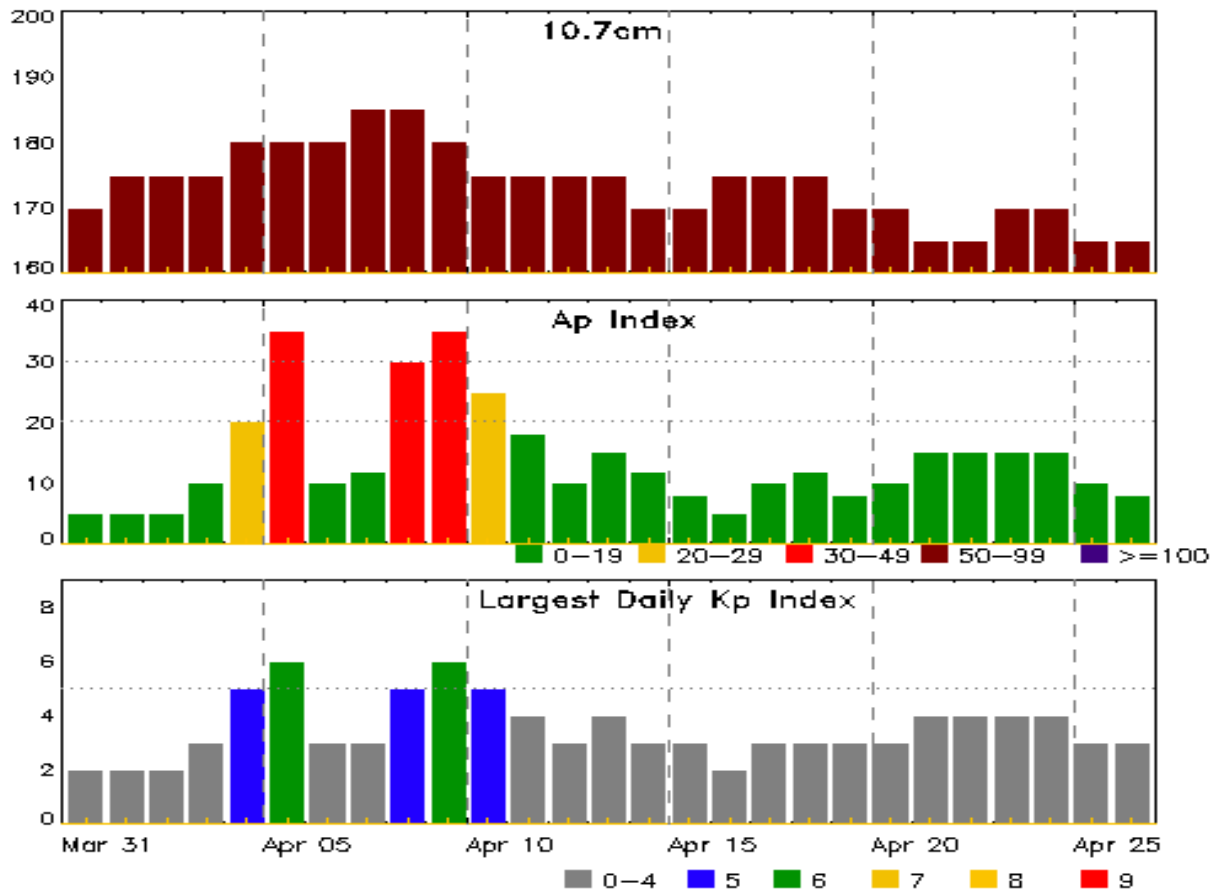


Alerts and Warnings Issued

| Date & Time of Issue UTC | Type of Alert or Warning | Date & Time of Event UTC |
|---|--|---|
| 27 Mar 0902 | ALERT: Geomagnetic K = 5 | |
| 27 Mar 1503 | ALERT: Geomagnetic K = 5 | |
| 27 Mar 1608 | ALERT: Geomagnetic K = 5 | |
| 27 Mar 1647 | EXTENDED WARNING: Geomagnetic K = 5 | 26/0131 - 28/0600 |
| 27 Mar 1653 | EXTENDED WARNING: Geomagnetic K = 4 | 25/2017 - 28/1200 |
| 28 Mar 0823 | EXTENDED WARNING: Geomagnetic K = 4 | 25/2017 - 28/2359 |
| 28 Mar 1428 | ALERT: Electron 2MeV Integral Flux \geq 1000pfu | 28/1410 |
| 28 Mar 1518 | ALERT: X-ray Flux exceeded M5 | 28/1507 |
| 28 Mar 1537 | ALERT: Type IV Radio Emission | 28/1514 |
| 28 Mar 1542 | SUMMARY: 10cm Radio Burst | 28/1506 - 1530 |
| 28 Mar 1550 | SUMMARY: X-ray Event exceeded X1 | 28/1503 - 1542 |
| 28 Mar 1609 | SUMMARY: X-ray Event exceeded X1 | 28/1503 - 1542 |
| 28 Mar 2357 | EXTENDED WARNING: Geomagnetic K = 4 | 25/2017 - 29/1200 |
| 29 Mar 0507 | CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu | 28/1410 |
| 30 Mar 0501 | CONTINUED ALERT: Electron 2MeV Integral Flux \geq 1000pfu | 28/1410 |



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 |
|--------|----------------------|----------------------|---------------------|--------|----------------------|----------------------|---------------------|
| 31 Mar | 170 | 5 | 2 | 14 Apr | 170 | 12 | 3 |
| 01 Apr | 175 | 5 | 2 | 15 | 170 | 8 | 3 |
| 02 | 175 | 5 | 2 | 16 | 175 | 5 | 2 |
| 03 | 175 | 10 | 3 | 17 | 175 | 10 | 3 |
| 04 | 180 | 20 | 5 | 18 | 175 | 12 | 3 |
| 05 | 180 | 35 | 6 | 19 | 170 | 8 | 3 |
| 06 | 180 | 10 | 3 | 20 | 170 | 10 | 3 |
| 07 | 185 | 12 | 3 | 21 | 165 | 15 | 4 |
| 08 | 185 | 30 | 5 | 22 | 165 | 15 | 4 |
| 09 | 180 | 35 | 6 | 23 | 170 | 15 | 4 |
| 10 | 175 | 25 | 5 | 24 | 170 | 15 | 4 |
| 11 | 175 | 18 | 4 | 25 | 165 | 10 | 3 |
| 12 | 175 | 10 | 3 | 26 | 165 | 8 | 3 |
| 13 | 175 | 15 | 4 | | | | |

Energetic Events

| Date | Time | | | X-ray | | Optical Information | | | Peak | | Sweep Freq | |
|--------|-------|------|------|-------|---------------|---------------------|---------------------|----------|------------|------|------------|----|
| | Begin | Max | Half | Class | Integ Flux | Imp/ Brtns | Location Lat CMD | Rgn # | Radio Flux | | Intensity | |
| | | | Max | | | | | | 245 | 2695 | II | IV |
| 26 Mar | 0744 | 0809 | 0821 | M1.0 | 0.013 | | | | 4043 | | | |
| 27 Mar | 0018 | 0037 | 0051 | M2.0 | 0.001 | | | | 4043 | | | |
| 28 Mar | 1503 | 1521 | 1542 | X1.1 | 0.170 | | | | 4046 | 240 | 380 | 2 |
| 28 Mar | 1754 | 1801 | 1805 | M1.0 | 0.006 | SF | N02E76 | | 4046 | | | |
| 28 Mar | 1914 | 1926 | 1938 | M1.1 | 0.013 | | | | | | | |
| 28 Mar | 2320 | 2339 | 2353 | M1.7 | 0.022 | | | | 4048 | | | |
| 29 Mar | 2119 | 2138 | 2209 | M1.4 | 0.031 | | | | 4043 | | | |
| 29 Mar | 2238 | 2300 | 2321 | M1.9 | 0.037 | | | | 4048 | | | |
| 30 Mar | 0119 | 0148 | 0201 | M1.5 | 0.024 | | | | 4048 | | | |
| 30 Mar | 1627 | 1642 | 1700 | M1.6 | 0.021 | | | | 4048 | | | |
| 30 Mar | 1700 | 1707 | 1714 | M1.4 | 0.011 | | | | 4048 | | | |
| 30 Mar | 2243 | 2250 | 2256 | M1.4 | 0.009 | | | | 4048 | | | |
| 30 Mar | 2310 | 2319 | 2331 | M1.5 | 0.014 | | | | 4048 | 100 | | |
| 30 Mar | 2341 | 2348 | 2352 | M1.0 | 0.007 | | | | 4048 | | | |

Flare List

| Date | Time | | | X-ray Class | Optical | | |
|--------|-------|------|------|----------------|---------------|---------------------|----------|
| | Begin | Max | End | | Imp/ Brtns | Location Lat CMD | Rgn # |
| 24 Mar | 0027 | 0034 | 0046 | C2.0 | | | |
| 24 Mar | 0725 | 0737 | 0746 | C5.2 | | | 4035 |
| 24 Mar | 1326 | 1336 | 1346 | C2.3 | SF | N08W61 | 4036 |
| 24 Mar | 1741 | 1752 | 1817 | | SF | N08W64 | 4036 |
| 24 Mar | 1830 | 1836 | 1844 | C1.4 | SF | N08W64 | 4036 |
| 24 Mar | 1845 | 1848 | 1851 | | SF | N08W64 | 4036 |
| 24 Mar | 2042 | 2049 | 2054 | C1.8 | | | |
| 24 Mar | 2309 | 2318 | 2333 | C2.5 | SF | N08W66 | 4036 |
| 25 Mar | 0036 | 0040 | 0046 | C3.4 | SF | N08W66 | 4036 |
| 25 Mar | 0148 | 0154 | 0201 | C1.7 | | | 4036 |
| 25 Mar | 0350 | 0355 | 0406 | C1.6 | | | |
| 25 Mar | 0811 | 0819 | 0829 | C2.6 | | | 4030 |
| 25 Mar | 0842 | 0858 | 0928 | C3.1 | | | 4036 |
| 25 Mar | 0942 | 0949 | 1001 | C4.4 | | | 4030 |
| 25 Mar | 1216 | 1229 | 1244 | C9.5 | | | 4030 |
| 25 Mar | 1757 | 1804 | 1810 | C2.5 | SF | S10W59 | 4034 |
| 25 Mar | 1930 | 1936 | 1947 | | SF | N14E60 | 4043 |



Flare List

| Date | Time | | | Optical | | | |
|--------|-------|-------|-------|----------------|---------------|---------------------|----------|
| | Begin | Max | End | X-ray Class | Imp/ Brtns | Location Lat CMD | Rgn # |
| 25 Mar | 2039 | 2047 | 2053 | C2.5 | SF | N13E59 | 4043 |
| 26 Mar | 0439 | 0444 | 0449 | C1.9 | | | 4043 |
| 26 Mar | 0712 | 0724 | 0730 | C2.3 | | | 4043 |
| 26 Mar | 0744 | 0809 | 0821 | M1.0 | | | 4043 |
| 26 Mar | 0907 | 0912 | 0920 | C6.5 | | | 4043 |
| 26 Mar | 1149 | 1154 | 1202 | C2.8 | | | 4043 |
| 26 Mar | 1324 | 1337 | 1350 | C2.7 | | | |
| 26 Mar | 1910 | 1923 | 1931 | C7.0 | | | 4043 |
| 26 Mar | 2035 | 2042 | 2046 | C1.9 | | | |
| 26 Mar | 2315 | 2324 | 2335 | C2.4 | | | 4043 |
| 27 Mar | 0018 | 0037 | 0051 | M2.0 | | | 4043 |
| 27 Mar | 0249 | 0301 | 0312 | C3.9 | | | 4043 |
| 27 Mar | 0446 | 0454 | 0501 | C2.4 | | | |
| 27 Mar | 0657 | 0703 | 0713 | C2.0 | SF | N14E41 | 4043 |
| 27 Mar | 0913 | 0922 | 0939 | C2.1 | | | |
| 27 Mar | 0946 | 1002 | 1024 | C3.2 | | | |
| 27 Mar | 1108 | 1108 | 1115 | | SF | N18E09 | 4041 |
| 27 Mar | 1413 | 1420 | 1429 | C1.6 | | | |
| 27 Mar | 1534 | 1553 | 1610 | C3.9 | | | |
| 27 Mar | 2216 | 2224 | 2241 | C8.8 | | | 4043 |
| 27 Mar | 2241 | 2252 | 2301 | C7.5 | | | 4043 |
| 28 Mar | 0352 | 0405 | 0421 | C2.1 | | | 4043 |
| 28 Mar | 0743 | 0753 | 0757 | C1.8 | | | 4043 |
| 28 Mar | 0757 | 0804 | 0809 | C1.9 | | | 4043 |
| 28 Mar | 1351 | 1401 | 1407 | C3.5 | | | |
| 28 Mar | 1503 | 1521 | 1542 | X1.1 | | | 4046 |
| 28 Mar | 1753 | 1803 | 1815 | M1.0 | SF | N02E76 | 4046 |
| 28 Mar | 1914 | 1926 | 1938 | M1.1 | | | |
| 28 Mar | 2320 | 2339 | 2353 | M1.7 | | | 4048 |
| 29 Mar | 0355 | 0404 | 0409 | C4.0 | | | 4048 |
| 29 Mar | 0409 | 0413 | 0419 | C3.8 | | | 4048 |
| 29 Mar | 0450 | 0459 | 0506 | C3.9 | | | 4048 |
| 29 Mar | 0625 | 0631 | 0640 | C2.2 | | | 4048 |
| 29 Mar | 1012 | 1019 | 1025 | C2.4 | | | 4048 |
| 29 Mar | B1031 | U1034 | A1040 | | SF | N08W26 | 4039 |
| 29 Mar | 1105 | 1112 | 1117 | C4.5 | | | 4048 |
| 29 Mar | 1125 | 1132 | 1137 | C2.9 | | | 4046 |
| 29 Mar | 1149 | 1201 | 1207 | C7.5 | | | 4048 |



Flare List

| Date | Time | | | Optical | | | |
|--------|-------|-------|-------|----------------|---------------|---------------------|----------|
| | Begin | Max | End | X-ray Class | Imp/ Brtns | Location Lat CMD | Rgn # |
| 29 Mar | 1703 | 1708 | 1713 | C2.2 | | | 4048 |
| 29 Mar | 1726 | 1731 | 1736 | C2.6 | | | 4048 |
| 29 Mar | 1753 | 1807 | 1817 | C6.5 | | | 4048 |
| 29 Mar | 1839 | 1851 | 1859 | C6.6 | | | 4048 |
| 29 Mar | 1906 | 1913 | 1918 | C3.5 | | | 4048 |
| 29 Mar | 1957 | 2007 | 2013 | C3.3 | | | 4048 |
| 29 Mar | 2028 | 2036 | 2043 | C3.5 | | | 4048 |
| 29 Mar | 2119 | 2138 | 2209 | M1.4 | | | 4043 |
| 29 Mar | 2238 | 2300 | 2321 | M1.9 | | | 4048 |
| 30 Mar | 0119 | 0148 | 0201 | M1.5 | | | 4048 |
| 30 Mar | 0430 | 0437 | 0444 | C4.9 | | | 4048 |
| 30 Mar | B0811 | U0811 | A0821 | | SF | S15W28 | 4047 |
| 30 Mar | 0958 | 1012 | 1024 | C8.2 | SF | S15E75 | 4048 |
| 30 Mar | 1120 | 1128 | 1132 | C3.1 | SF | S15E75 | 4048 |
| 30 Mar | 1145 | 1154 | 1208 | C3.9 | | | |
| 30 Mar | 1214 | U1214 | 1222 | C3.9 | SF | N07E55 | 4046 |
| 30 Mar | 1229 | 1237 | 1242 | C4.3 | | | 4046 |
| 30 Mar | 1509 | 1518 | 1522 | | SF | S16E76 | 4048 |
| 30 Mar | 1526 | 1528 | 1530 | | SF | S21E72 | 4048 |
| 30 Mar | 1535 | 1550 | 1604 | C3.7 | 1F | S16E73 | 4048 |
| 30 Mar | 1611 | 1612 | 1622 | | SF | N01E50 | 4046 |
| 30 Mar | 1616 | 1643 | 1735 | | 1N | S16E72 | 4048 |
| 30 Mar | 1627 | 1642 | 1700 | M1.6 | | | 4048 |
| 30 Mar | 1700 | 1707 | 1714 | M1.4 | | | 4048 |
| 30 Mar | 1741 | 1745 | 1750 | | SF | S14E74 | 4048 |
| 30 Mar | 1801 | 1801 | 1804 | | SF | S15E72 | 4048 |
| 30 Mar | 1806 | 1807 | 1809 | | SF | S16E74 | 4048 |
| 30 Mar | 1840 | 1854 | 1907 | C3.5 | SF | N17W35 | 4041 |
| 30 Mar | 1935 | 1944 | 1955 | C4.9 | | | 4048 |
| 30 Mar | 1955 | 2001 | 2005 | C4.3 | | | |
| 30 Mar | 2103 | 2114 | 2122 | C3.6 | | | |
| 30 Mar | 2226 | 2235 | 2243 | C8.5 | | | 4039 |
| 30 Mar | 2243 | 2250 | 2256 | M1.4 | | | 4048 |
| 30 Mar | 2244 | 2245 | 2321 | | SF | N12W51 | 4039 |
| 30 Mar | 2310 | 2319 | 2331 | M1.5 | | | 4048 |
| 30 Mar | 2341 | 2348 | 2352 | M1.0 | | | 4048 |



Region Summary

| Date | Location | Sunspot Characteristics | | | | | | Flares | | | | | | | |
|-------------|----------|-------------------------|--------------------------------|-------------------|---------------|---------------|--------------|--------|---|---|---------|---|---|---|---|
| | Lat CMD | Helio | Area 10 ⁻⁶ hemi. | Extent (helio) | Spot Class | Spot Count | Mag Class | X-ray | | | Optical | | | | |
| | | Lon | | | | | | C | M | X | S | 1 | 2 | 3 | 4 |
| Region 4028 | | | | | | | | | | | | | | | |
| 13 Mar | S17E65 | 143 | 120 | 3 | Dai | 4 | B | 1 | | | | | | | |
| 14 Mar | S18E57 | 138 | 110 | 9 | Dao | 6 | BG | 3 | | | | | | | |
| 15 Mar | S17E41 | 141 | 240 | 6 | Dai | 3 | BG | 4 | | | 1 | | | | |
| 16 Mar | S18E27 | 142 | 110 | 7 | Dsi | 12 | BG | 2 | | | 2 | | | | |
| 17 Mar | S18E16 | 140 | 100 | 7 | Dai | 17 | BG | 2 | | | 1 | 1 | | | |
| 18 Mar | S17E03 | 140 | 60 | 6 | Dai | 11 | BG | 2 | | | | | | | |
| 19 Mar | S17W10 | 139 | 70 | 6 | Dai | 13 | B | 1 | | | 1 | | | | |
| 20 Mar | S17W24 | 140 | 60 | 6 | Cai | 10 | B | | | | | | | | |
| 21 Mar | S16W38 | 141 | 80 | 7 | Cai | 10 | B | | 1 | | | 1 | | | |
| 22 Mar | S16W52 | 142 | 40 | 3 | Cri | 6 | B | | | | | | | | |
| 23 Mar | S16W66 | 143 | 30 | 2 | Bxo | 4 | B | 3 | | | 1 | | | | |
| 24 Mar | S16W80 | 144 | 10 | 2 | Axx | 4 | A | | | | | | | | |
| | | | | | | | | 35 | 1 | 0 | 6 | 2 | 0 | 0 | 0 |

Crossed West Limb.

Absolute heliographic longitude: 140

| | | | | | | | | | | | | | | | |
|---------------------------|--------|-----|-------|---|-----|---|---|---|---|---|---|---|---|---|---|
| <i>Region 4029</i> | | | | | | | | | | | | | | | |
| 15 Mar | S14E34 | 148 | 10 | 1 | Axx | 1 | A | | | | | | | | |
| 16 Mar | S15E20 | 149 | plage | | | | | 1 | | | 1 | | | | |
| 17 Mar | S15E06 | 150 | plage | | | | | | | | | | | | |
| 18 Mar | S15W08 | 151 | plage | | | | | | | | | | | | |
| 19 Mar | S15W22 | 151 | plage | | | | | | | | | | | | |
| 20 Mar | S15W36 | 152 | plage | | | | | | | | | | | | |
| 21 Mar | S15W50 | 153 | plage | | | | | | | | | | | | |
| 22 Mar | S15W64 | 154 | plage | | | | | | | | | | | | |
| 23 Mar | S15W78 | 155 | plage | | | | | | | | | | | | |
| | | | | | | | | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

Crossed West Limb.

Absolute heliographic longitude: 150



Region Summary - continued

| Date | Location | Sunspot Characteristics | | | | | | Flares | | | | | | | |
|-------------|----------|-------------------------|--------------------------------|-------------------|---------------|---------------|--------------|--------|---|---|---------|---|---|---|---|
| | Lat CMD | Helio | Area 10 ⁻⁶ hemi. | Extent (helio) | Spot Class | Spot Count | Mag Class | X-ray | | | Optical | | | | |
| | | Lon | | | | | | C | M | X | S | 1 | 2 | 3 | 4 |
| Region 4030 | | | | | | | | | | | | | | | |
| 14 Mar | S16E65 | 130 | plage | | | | | | | 1 | | | | | |
| 15 Mar | S16E59 | 123 | | 90 | 12 | Eso | 5 | BG | 2 | | | | | | |
| 16 Mar | S17E38 | 131 | | 80 | 2 | Hsx | 1 | A | 1 | | | | | | |
| 17 Mar | S17E26 | 130 | | 70 | 2 | Hsx | 1 | A | | | | | | | |
| 18 Mar | S17E13 | 130 | 90 | 2 | Hsx | 1 | A | | | | | | | | |
| 19 Mar | S17E01 | 128 | 60 | 2 | Hsx | 1 | A | 1 | | | | 1 | | | |
| 20 Mar | S17W13 | 129 | 60 | 2 | Hsx | 1 | A | | | | | | | | |
| 21 Mar | S18W25 | 128 | 110 | 2 | Hsx | 1 | A | | | | | | | | |
| 22 Mar | S18W39 | 129 | 100 | 2 | Hsx | 1 | A | | | | | | | | |
| 23 Mar | S18W52 | 129 | 80 | 2 | Hsx | 1 | A | | | | | | | | |
| 24 Mar | S18W65 | 129 | 100 | 2 | Hsx | 1 | A | | | | | | | | |
| 25 Mar | S15W77 | 126 | 80 | 2 | Hsx | 1 | A | 3 | | | | | | | |
| 26 Mar | S15W88 | 124 | 10 | 1 | Hsx | 1 | A | | | | | | | | |
| | | | | | | | | 7 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |

Crossed West Limb.

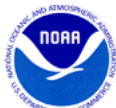
Absolute heliographic longitude: 128

Region 4031

| | | | | | | | | | | | | | | | |
|--------|--------|-----|-------|----|-----|----|----|---|---|---|---|---|---|---|---|
| 15 Mar | N17E18 | 164 | 10 | 3 | Bxo | 2 | B | | | | | | | | |
| 16 Mar | N17E04 | 165 | 60 | 5 | Dai | 6 | B | | | | | | | | |
| 17 Mar | N15W10 | 166 | 60 | 9 | Dai | 12 | BG | 1 | | | 1 | | | | |
| 18 Mar | N16W24 | 167 | 100 | 12 | Eai | 11 | BG | | | | | | | | |
| 19 Mar | N16W36 | 165 | 120 | 11 | Eai | 11 | BG | 1 | 1 | | | 1 | | | |
| 20 Mar | N17W48 | 164 | 100 | 10 | Cai | 12 | B | 1 | | | 1 | | | | |
| 21 Mar | N16W66 | 169 | 120 | 7 | Cao | 5 | B | | | | | | | | |
| 22 Mar | N17W79 | 169 | 80 | 4 | Cao | 4 | B | | | | | | | | |
| 23 Mar | N17W93 | 170 | plage | | | | | 1 | | | | | | | |
| | | | | | | | | 4 | 1 | 0 | 2 | 1 | 0 | 0 | 0 |

Crossed West Limb.

Absolute heliographic longitude: 165



Region Summary - continued

| Date | Location | Sunspot Characteristics | | | | | | Flares | | | | | | | |
|-------------|----------|-------------------------|--------------------------------|-------------------|---------------|---------------|--------------|--------|---|---|---------|---|---|---|---|
| | Lat CMD | Helio | Area 10 ⁻⁶ hemi. | Extent (helio) | Spot Class | Spot Count | Mag Class | X-ray | | | Optical | | | | |
| | | Lon | | | | | | C | M | X | S | 1 | 2 | 3 | 4 |
| Region 4032 | | | | | | | | | | | | | | | |
| 15 Mar | N27E36 | 146 | 10 | 1 | Axx | 1 | A | | | | | | | | |
| 16 Mar | N28E22 | 147 | 10 | 1 | Axx | 1 | A | | | | | | | | |
| 17 Mar | N28E08 | 148 | plage | | | | | | | | | | | | |
| 18 Mar | N28W06 | 149 | plage | | | | | | | | | | | | |
| 19 Mar | N28W20 | 149 | plage | | | | | | | | | | | | |
| 20 Mar | N28W34 | 150 | plage | | | | | | | | | | | | |
| 21 Mar | N28W48 | 151 | plage | | | | | | | | | | | | |
| 22 Mar | N28W62 | 152 | plage | | | | | | | | | | | | |
| 23 Mar | N28W76 | 153 | plage | | | | | | | | | | | | |
| 24 Mar | N28W90 | 154 | plage | | | | | | | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Crossed West Limb.

Absolute heliographic longitude: 149

| | | | | | | | | | | | | | | | |
|---------------------------|--------|-----|-------|---|-----|---|---|---|---|---|---|---|---|---|---|
| <i>Region 4033</i> | | | | | | | | | | | | | | | |
| 15 Mar | N24E60 | 122 | 10 | 3 | Bxo | 3 | B | | | | | | | | |
| 16 Mar | N25E47 | 122 | 10 | 1 | Axx | 2 | A | | | | | | | | |
| 17 Mar | N24E37 | 119 | 10 | 2 | Axx | 2 | A | 1 | 1 | | | 1 | | | |
| 18 Mar | N29E24 | 119 | 10 | 1 | Axx | 1 | A | | | | | | | | |
| 19 Mar | N29E10 | 119 | plage | | | | | | | | | | | | |
| 20 Mar | N29W04 | 120 | plage | | | | | | | | | | | | |
| 21 Mar | N19W19 | 122 | 10 | 2 | Axx | 2 | A | | | | | | | | |
| 22 Mar | N19W33 | 123 | plage | | | | | | | | | | | | |
| 23 Mar | N19W47 | 124 | plage | | | | | | | | | | | | |
| 24 Mar | N19W61 | 125 | plage | | | | | | | | | | | | |
| 25 Mar | N19W75 | 125 | plage | | | | | | | | | | | | |
| 26 Mar | N19W89 | 126 | plage | | | | | | | | | | | | |
| | | | | | | | | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |

Crossed West Limb.

Absolute heliographic longitude: 120



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 4034 | | | | | | | | | | | | | | | |
| 16 Mar | S16E51 | 118 | 10 | 5 | Bxo | 3 | B | | | | | | | | |
| 17 Mar | S14E46 | 110 | 20 | 4 | Cro | 3 | B | 2 | | | | | | | |
| 18 Mar | S13E30 | 113 | 10 | 6 | Bxo | 5 | B | | | | | | | | |
| 19 Mar | S13E16 | 113 | 10 | 6 | Bxi | 11 | B | | | | | | | | |
| 20 Mar | S12E04 | 112 | 20 | 5 | Cso | 8 | B | | | | | | | | |
| 21 Mar | S12W09 | 112 | 20 | 6 | Cro | 4 | B | 1 | | | 1 | | | | |
| 22 Mar | S11W21 | 111 | 10 | 1 | Axx | 1 | A | | | | | | | | |
| 23 Mar | S11W35 | 112 | plage | | | | | | | | | | | | |
| 24 Mar | S11W49 | 113 | plage | | | | | | | | | | | | |
| 25 Mar | S11W63 | 113 | plage | | | | | 1 | | | 1 | | | | |
| 26 Mar | S11W77 | 114 | plage | | | | | | | | | | | | |
| | | | | | | | | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |

Died on Disk.

Absolute heliographic longitude: 112

Region 4035

| | | | | | | | | | | | | | | | |
|--------|--------|----|-------|---|-----|---|---|---|---|---|---|---|---|---|---|
| 18 Mar | N15E53 | 90 | 20 | 3 | Dro | 5 | B | | | | | | | | |
| 19 Mar | N15E46 | 83 | 50 | 7 | Dao | 4 | B | | | | | | | | |
| 20 Mar | N15E32 | 84 | 80 | 8 | Dso | 4 | B | | | | | | | | |
| 21 Mar | N15E18 | 85 | 80 | 8 | Dao | 6 | B | | | | | | | | |
| 22 Mar | N15E05 | 85 | 80 | 8 | Dro | 7 | B | 1 | | | 1 | | | | |
| 23 Mar | N15W09 | 86 | 40 | 9 | Cro | 6 | B | 2 | | | 1 | | | | |
| 24 Mar | N15W22 | 84 | 10 | 9 | Bxo | 6 | B | 1 | | | | | | | |
| 25 Mar | N16W36 | 85 | 30 | 8 | Cro | 4 | B | | | | | | | | |
| 26 Mar | N16W50 | 87 | 15 | 9 | Cao | 3 | B | | | | | | | | |
| 27 Mar | N16W63 | 87 | 20 | 5 | Cso | 3 | B | | | | | | | | |
| 28 Mar | N16W77 | 88 | plage | | | | | | | | | | | | |
| | | | | | | | | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |

Died on Disk.

Absolute heliographic longitude: 85



Region Summary - continued

| Date | Location | | Sunspot Characteristics | | | | | Flares | | | | | | | |
|-------------|----------|-------|--------------------------------|-------------------|---------------|---------------|--------------|--------|---|---|---------|---|---|---|---|
| | Lat CMD | Helio | Area 10 ⁻⁶ hemi. | Extent (helio) | Spot Class | Spot Count | Mag Class | X-ray | | | Optical | | | | |
| | | Lon | | | | | | C | M | X | S | 1 | 2 | 3 | 4 |
| Region 4036 | | | | | | | | | | | | | | | |
| 21 Mar | N06W24 | 127 | 20 | 3 | Dro | 4 | B | 1 | | | | | | | |
| 22 Mar | N07W39 | 129 | 220 | 8 | Dac | 15 | BG | | | | | 3 | | | |
| 23 Mar | N07W52 | 129 | 230 | 9 | Dai | 12 | BG | | | | | 1 | | | |
| 24 Mar | N07W65 | 129 | 260 | 9 | Dhi | 9 | BG | 3 | | | | 5 | | | |
| 25 Mar | N08W78 | 127 | 300 | 11 | Eki | 8 | BG | 3 | | | | 1 | | | |
| 26 Mar | N08W89 | 125 | 300 | 11 | Eki | 8 | BG | | | | | | | | |
| | | | | | | | | 7 | 0 | 0 | 10 | 0 | 0 | 0 | 0 |

Crossed West Limb.

Absolute heliographic longitude: 127

| | | | | | | | | | | | | | | | |
|--------------------|--------|-----|-------|---|-----|---|---|---|---|---|---|---|---|---|---|
| Region 4037 | | | | | | | | | | | | | | | |
| 21 Mar | N19W19 | 122 | 10 | 3 | Cro | 2 | B | | | | | | | | |
| 22 Mar | N19W34 | 124 | 10 | 5 | Bxo | 4 | B | | | | | | | | |
| 23 Mar | N17W48 | 125 | plage | | | | | | | | | | | | |
| 24 Mar | N19W62 | 126 | plage | | | | | | | | | | | | |
| 25 Mar | N19W76 | 126 | plage | | | | | | | | | | | | |
| 26 Mar | N19W90 | 127 | plage | | | | | | | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Crossed West Limb.

Absolute heliographic longitude: 122

| | | | | | | | | | | | | | | | |
|--------------------|--------|----|-------|---|-----|---|---|---|---|---|---|---|---|---|---|
| Region 4038 | | | | | | | | | | | | | | | |
| 21 Mar | S15E60 | 43 | 10 | 1 | Axx | 2 | A | | | | | | | | |
| 22 Mar | S15E47 | 43 | 10 | 7 | Bxo | 2 | B | | | | | | | | |
| 23 Mar | S14E34 | 43 | plage | | | | | | | | | | | | |
| 24 Mar | S14E20 | 44 | plage | | | | | | | | | | | | |
| 25 Mar | S14E06 | 44 | plage | | | | | | | | | | | | |
| 26 Mar | S14W08 | 45 | plage | | | | | | | | | | | | |
| 27 Mar | S15W22 | 46 | plage | | | | | | | | | | | | |
| 28 Mar | S15W36 | 47 | plage | | | | | | | | | | | | |
| 29 Mar | S15W50 | 48 | plage | | | | | | | | | | | | |
| 30 Mar | S15W64 | 48 | plage | | | | | | | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Still on Disk.

Absolute heliographic longitude: 44



Region Summary - continued

| Date | Location | Sunspot Characteristics | | | | | | Flares | | | | | | | |
|-------------|----------|-------------------------|--------------------------------|-------------------|---------------|---------------|--------------|--------|---|---|---------|---|---|---|---|
| | Lat CMD | Helio | Area 10 ⁻⁶ hemi. | Extent (helio) | Spot Class | Spot Count | Mag Class | X-ray | | | Optical | | | | |
| | | Lon | | | | | | C | M | X | S | 1 | 2 | 3 | 4 |
| Region 4039 | | | | | | | | | | | | | | | |
| 21 Mar | N09E70 | 33 | 30 | 3 | Cro | 4 | B | | | | | | | | |
| 22 Mar | N09E53 | 37 | 10 | 3 | Bxo | 3 | B | | | | | | | | |
| 23 Mar | N09E37 | 40 | 10 | 2 | Bxo | 3 | B | | | | | | | | |
| 24 Mar | N09E23 | 41 | 10 | 3 | Bxo | 3 | B | | | | | | | | |
| 25 Mar | N09E09 | 41 | plage | | | | | | | | | | | | |
| 26 Mar | N09W05 | 42 | plage | | | | | | | | | | | | |
| 27 Mar | N09W19 | 43 | plage | | | | | | | | | | | | |
| 28 Mar | N09W33 | 44 | plage | | | | | | | | | | | | |
| 29 Mar | N09W47 | 45 | plage | | | | | | | | 1 | | | | |
| 30 Mar | N09W62 | 46 | plage | | | | | 1 | | | 1 | | | | |
| | | | | | | | | 1 | 0 | 0 | 2 | 0 | 0 | 0 | |

Still on Disk.

Absolute heliographic longitude: 42

Region 4040

| | | | | | | | | | | | | | | | |
|--------|--------|----|-------|---|-----|---|---|---|---|---|---|---|---|---|---|
| 22 Mar | S08E61 | 29 | 30 | 1 | Hax | 1 | A | | | | | | | | |
| 23 Mar | S08E46 | 31 | 20 | 1 | Axx | 2 | A | | | | | | | | |
| 24 Mar | S08E32 | 32 | 10 | 1 | Axx | 2 | A | | | | | | | | |
| 25 Mar | S08E18 | 32 | plage | | | | | | | | | | | | |
| 26 Mar | S08E04 | 33 | plage | | | | | | | | | | | | |
| 27 Mar | S08W10 | 34 | plage | | | | | | | | | | | | |
| 28 Mar | S08W24 | 35 | plage | | | | | | | | | | | | |
| 29 Mar | S08W38 | 36 | plage | | | | | | | | | | | | |
| 30 Mar | S08W52 | 36 | plage | | | | | | | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Still on Disk.

Absolute heliographic longitude: 33



Region Summary - continued

| Date | Location | Sunspot Characteristics | | | | | | Flares | | | | | | | |
|-------------|----------|-------------------------|--------------------------------|-------------------|---------------|---------------|--------------|--------|---|---|---------|---|---|---|---|
| | Lat CMD | Helio | Area 10 ⁻⁶ hemi. | Extent (helio) | Spot Class | Spot Count | Mag Class | X-ray | | | Optical | | | | |
| | | Lon | | | | | | C | M | X | S | 1 | 2 | 3 | 4 |
| Region 4041 | | | | | | | | | | | | | | | |
| 22 Mar | N16E63 | 27 | 10 | 1 | Axx | 1 | A | | | | | | | | |
| 23 Mar | N17E49 | 28 | 10 | 1 | Axx | 1 | A | | | | | | | | |
| 24 Mar | N18E35 | 29 | plage | | | | | | | | | | | | |
| 25 Mar | N18E21 | 29 | plage | | | | | | | | | | | | |
| 26 Mar | N18E07 | 30 | plage | | | | | | | | | | | | |
| 27 Mar | N17E01 | 23 | 10 | 3 | Bxo | 2 | B | | | | 1 | | | | |
| 28 Mar | N18W13 | 24 | 10 | 1 | Axx | 1 | A | | | | | | | | |
| 29 Mar | N18W26 | 24 | 10 | 1 | Axx | 1 | A | | | | | | | | |
| 30 Mar | N18W40 | 24 | plage | | | | | 1 | | | 1 | | | | |
| | | | | | | | | 1 | 0 | 0 | 2 | 0 | 0 | 0 | |

Still on Disk.

Absolute heliographic longitude: 23

Region 4042

| | | | | | | | | | | | | | | | |
|--------|--------|----|-------|---|-----|---|---|---|---|---|---|---|---|---|---|
| 22 Mar | S12E69 | 21 | 10 | 1 | Axx | 1 | A | | | | | | | | |
| 23 Mar | S12E54 | 23 | 10 | 1 | Axx | 1 | A | | | | | | | | |
| 24 Mar | S12E40 | 24 | plage | | | | | | | | | | | | |
| 25 Mar | S12E26 | 24 | plage | | | | | | | | | | | | |
| 26 Mar | S12E12 | 25 | plage | | | | | | | | | | | | |
| 27 Mar | S12W02 | 26 | plage | | | | | | | | | | | | |
| 28 Mar | S12W16 | 27 | plage | | | | | | | | | | | | |
| 29 Mar | S12W30 | 28 | plage | | | | | | | | | | | | |
| 30 Mar | S12W44 | 28 | plage | | | | | | | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Still on Disk.

Absolute heliographic longitude: 26

Region 4043

| | | | | | | | | | | | | | | | |
|--------|--------|-----|-----|----|-----|----|----|----|---|---|---|---|---|---|---|
| 25 Mar | N13E55 | 354 | 30 | 5 | Dro | 5 | B | 1 | | | 2 | | | | |
| 26 Mar | N11E52 | 354 | 90 | 8 | Dai | 11 | B | 6 | 1 | | | | | | |
| 27 Mar | N14E28 | 356 | 110 | 7 | Dai | 14 | B | 4 | 1 | | 1 | | | | |
| 28 Mar | N15E14 | 357 | 100 | 9 | Dai | 9 | BG | 3 | | | | | | | |
| 29 Mar | N14E01 | 357 | 100 | 10 | Dai | 17 | BG | | 1 | | | | | | |
| 30 Mar | N14W12 | 356 | 100 | 12 | Eai | 15 | BG | | | | | | | | |
| | | | | | | | | 14 | 3 | 0 | 3 | 0 | 0 | 0 | 0 |

Still on Disk.

Absolute heliographic longitude: 357



Region Summary - continued

| Date | Location | | Sunspot Characteristics | | | | | Flares | | | | | | | |
|------|----------|--------------|--------------------------------|-------------------|---------------|---------------|--------------|--------|---|---|---------|---|---|---|---|
| | Lat CMD | Helio Lon | Area 10 ⁻⁶ hemi. | Extent (helio) | Spot Class | Spot Count | Mag Class | X-ray | | | Optical | | | | |
| | | | | | | | | C | M | X | S | 1 | 2 | 3 | 4 |

Region 4044

| | | | | | | | | | | | | | | | |
|--------|--------|-----|----|---|-----|---|---|---|---|---|---|---|---|---|---|
| 27 Mar | N21E48 | 336 | 10 | 4 | Bxo | 2 | B | | | | | | | | |
| 28 Mar | N22E34 | 337 | 20 | 5 | Cro | 3 | B | | | | | | | | |
| 29 Mar | N21E21 | 337 | 30 | 7 | Cro | 6 | B | | | | | | | | |
| 30 Mar | N21E08 | 336 | 50 | 5 | Dao | 8 | B | | | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Still on Disk.

Absolute heliographic longitude: 336

Region 4045

| | | | | | | | | | | | | | | | |
|--------|--------|-----|----|---|-----|---|---|---|---|---|---|---|---|---|---|
| 27 Mar | S16E77 | 307 | 30 | 2 | Hsx | 1 | A | | | | | | | | |
| 28 Mar | S15E63 | 308 | 30 | 2 | Hsx | 1 | A | | | | | | | | |
| 29 Mar | S16E50 | 308 | 20 | 2 | Hax | 2 | A | | | | | | | | |
| 30 Mar | S15E37 | 307 | 20 | 2 | Hrx | 2 | A | | | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Still on Disk.

Absolute heliographic longitude: 307

Region 4046

| | | | | | | | | | | | | | | | |
|--------|--------|-----|-----|---|-----|---|----|---|---|---|---|---|---|---|---|
| 28 Mar | N05E69 | 302 | 270 | 5 | Cho | 3 | B | | 1 | 1 | 1 | | | | |
| 29 Mar | N05E56 | 302 | 270 | 4 | Cho | 3 | B | 1 | | | | | | | |
| 30 Mar | N05E43 | 301 | 270 | 5 | Dho | 6 | BG | 2 | | | 2 | | | | |
| | | | | | | | | 3 | 1 | 1 | 3 | 0 | 0 | 0 | 0 |

Still on Disk.

Absolute heliographic longitude: 301

Region 4047

| | | | | | | | | | | | | | | | |
|--------|--------|----|----|---|-----|----|---|---|---|---|---|---|---|---|---|
| 28 Mar | S16W10 | 21 | 10 | 3 | Cro | 3 | B | | | | | | | | |
| 29 Mar | S16W24 | 22 | 20 | 3 | Cro | 3 | B | | | | | | | | |
| 30 Mar | S16W37 | 21 | 70 | 5 | Dai | 10 | B | | | | 1 | | | | |
| | | | | | | | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |

Still on Disk.

Absolute heliographic longitude: 21



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 4048 | | | | | | | | | | | | | | | |
| 28 Mar | S15E91 | 281 | plage | | | | | | | 1 | | | | | |
| 29 Mar | S15E77 | 281 | 110 | 4 | Dao | 5 | B | 14 | 1 | | | | | | |
| 30 Mar | S15E63 | 281 | 300 | 12 | Eki | 10 | BG | 5 | 6 | | 7 | 2 | | | |
| | | | | | | | | 19 | 8 | 0 | 7 | 2 | 0 | 0 | 0 |

Still on Disk.

Absolute heliographic longitude: 281



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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