

Space Weather Highlights
24 June - 30 June 2024

SWPC PRF 2548
01 July 2024

Solar activity reached moderate levels on 24-25 Jun. The largest flare was an M1.8 flare from Region 3712 (S26 L=170, class/area=Eao/220) at 24/0417 UTC. Other M1 flares were observed from Regions 3713 (S14 L=153, class/area=Ekc/360), 3720 (S06 L=54, class/area=Dai/150), and 3723 (S19 L=08, class/area=Fai/210). Solar activity was at low levels for 26-30 Jun, with only C-class flares observed. Other notable activity included an approximately 35 degree filament erupted late on 24 Jun, centered near S19W58.

No proton events were observed at geosynchronous orbit.

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

Geomagnetic field activity was reached G4 (Severe) storm levels on 28 Jun due to the arrival of a CME that lifted off the Sun on 24 Jun. Total field strength reached 30 nT and the Bz component reached -22 nT. Solar wind speeds increased steadily from near 300 km/s to approximately 490 km/s. Active levels were reached early on 29 Jun due to continued CME influences. Quiet to unsettled levels were observed on 24-27 Jun, and 30 Jun.

Space Weather Outlook
01 July - 27 July 2024

Solar activity is expected to be low levels, with occasional M-class flares for the duration of the 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 levels from 01-27 Jul.

Geomagnetic field activity is expected to be at unsettled to active levels on 01-03 Jul due to possible glancing influences from multiple CMEs. Unsettled to active levels are expected on 14-16 Jul due to influence from a recurrent, positive polarity coronal hole high speed stream (CH HSS). Quiet to unsettled levels are expected on 05-13 Jul and 17-27 Jul.



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 June | 199 | 141 | 1340 | C3.8 | 5 | 5 | 0 | 13 | 2 | 0 | 0 | 0 |
| 25 June | 194 | 129 | 780 | C2.6 | 3 | 1 | 0 | 8 | 0 | 0 | 0 | 0 |
| 26 June | 181 | 135 | 850 | C1.5 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| 27 June | 183 | 146 | 820 | C1.2 | 12 | 0 | 0 | 5 | 0 | 0 | 0 | 0 |
| 28 June | 181 | 162 | 1320 | C1.2 | 8 | 0 | 0 | 10 | 0 | 0 | 0 | 0 |
| 29 June | 186 | 205 | 1250 | C1.1 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 30 June | 174 | 199 | 1150 | C1.1 | 6 | 0 | 0 | 6 | 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 | |
| | 24 June | 1.6e+05 | 1.9e+04 | 1.5e+06 |
| 25 June | 4.3e+06 | 1.8e+04 | 1.2e+06 | |
| 26 June | 1.9e+06 | 1.8e+04 | 1.2e+06 | |
| 27 June | 1.5e+06 | 1.7e+04 | 1.1e+06 | |
| 28 June | 1.4e+06 | 1.7e+04 | 1.0e+06 | |
| 29 June | 2.0e+05 | 1.7e+04 | 1.0e+06 | |
| 30 June | 7.4e+05 | 1.9e+04 | 1.2e+06 | |

Daily Geomagnetic Data

| Date | Middle Latitude Fredericksburg | | High Latitude College | | Estimated Planetary | |
|---------|-----------------------------------|-----------------|--------------------------|-----------------|------------------------|-----------------|
| | A | K-indices | A | K-indices | A | K-indices |
| | 24 June | 7 | 2-0-0-2-3-3-2-2 | 2 | 2-1-1-0-0-1-0-1 | 5 |
| 25 June | 9 | 1-1-3-3-2-3-2-1 | 13 | 2-2-5-3-2-3-1-1 | 9 | 2-1-3-3-2-3-2-2 |
| 26 June | 8 | 1-1-2-3-3-2-2-1 | 12 | 1-1-2-4-4-3-2-1 | 9 | 2-2-3-3-3-2-2-2 |
| 27 June | 11 | 2-2-1-2-3-3-3-3 | 6 | 2-1-1-0-3-2-2-2 | 9 | 2-2-1-2-2-2-3-3 |
| 28 June | 32 | 3-4-3-5-6-4-4-3 | 36 | 4-4-4-6-5-4-4-4 | 59 | 4-4-4-6-8-5-5-4 |
| 29 June | 11 | 3-2-2-3-3-2-3-2 | 19 | 4-2-2-4-4-4-3-3 | 14 | 4-3-2-3-2-3-3-3 |
| 30 June | 10 | 2-3-1-2-3-3-2-2 | 17 | 3-2-2-3-4-5-2-2 | 12 | 3-3-2-2-3-3-2-2 |

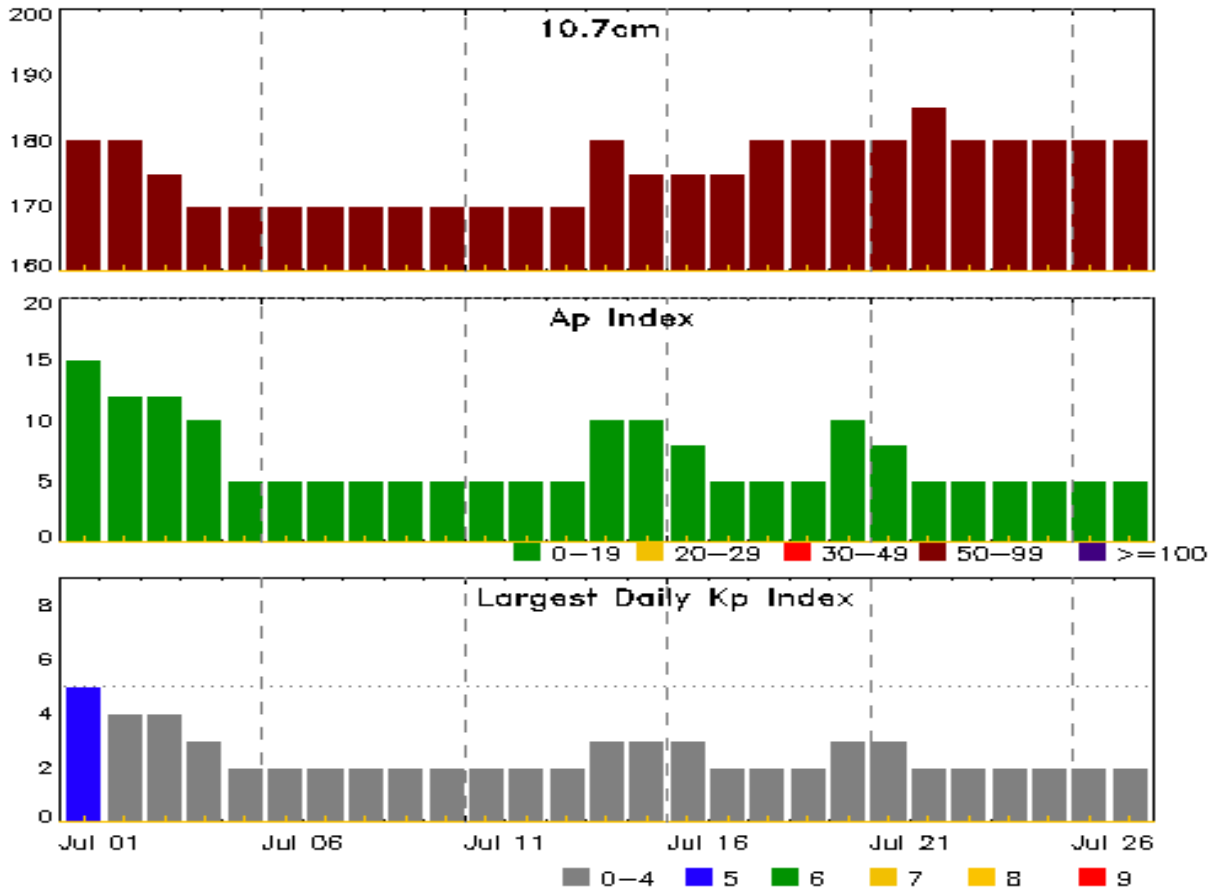


Alerts and Warnings Issued

| Date & Time of Issue UTC | Type of Alert or Warning | Date & Time of Event UTC |
|-----------------------------|--|-----------------------------|
| 25 Jun 1628 | WARNING: Geomagnetic K = 4 | 25/1630 - 2200 |
| 26 Jun 1032 | WARNING: Geomagnetic K = 4 | 26/1032 - 1800 |
| 26 Jun 1106 | WATCH: Geomagnetic Storm Category G1 predicted | |
| 27 Jun 2154 | WARNING: Geomagnetic K = 4 | 27/2153 - 28/0600 |
| 28 Jun 0151 | WARNING: Geomagnetic K = 5 | 28/0150 - 0600 |
| 28 Jun 0221 | ALERT: Geomagnetic K = 4 | |
| 28 Jun 0555 | EXTENDED WARNING: Geomagnetic K = 4 | 27/2153 - 28/1500 |
| 28 Jun 0555 | EXTENDED WARNING: Geomagnetic K = 5 | 28/0150 - 1500 |
| 28 Jun 0926 | WARNING: Geomagnetic Sudden Impulse expected | 28/1005 - 1035 |
| 28 Jun 1125 | ALERT: Geomagnetic K = 5 | |
| 28 Jun 1136 | EXTENDED WARNING: Geomagnetic K = 4 | 27/2153 - 28/2100 |
| 28 Jun 1136 | EXTENDED WARNING: Geomagnetic K = 5 | 28/0150 - 2100 |
| 28 Jun 1136 | WARNING: Geomagnetic K = 6 | 28/1135 - 1800 |
| 28 Jun 1147 | ALERT: Geomagnetic K = 6 | |
| 28 Jun 1221 | ALERT: Geomagnetic K = 5 | |
| 28 Jun 1311 | ALERT: Geomagnetic K = 6 | |
| 28 Jun 1324 | WARNING: Geomagnetic K \geq 7 | 28/1325 - 2100 |
| 28 Jun 1328 | ALERT: Geomagnetic K = 7 | |
| 28 Jun 1335 | EXTENDED WARNING: Geomagnetic K = 6 | 28/1135 - 2100 |
| 28 Jun 1418 | ALERT: Geomagnetic K = 8 | |
| 28 Jun 1522 | ALERT: Geomagnetic K = 5 | |
| 28 Jun 1915 | ALERT: Geomagnetic K = 5 | |
| 28 Jun 2054 | EXTENDED WARNING: Geomagnetic K = 4 | 27/2153 - 29/0900 |
| 28 Jun 2054 | EXTENDED WARNING: Geomagnetic K = 5 | 28/0150 - 29/0600 |
| 29 Jun 0859 | EXTENDED WARNING: Geomagnetic K = 4 | 27/2153 - 29/1800 |
| 30 Jun 1714 | WARNING: Geomagnetic K = 4 | 30/1710 - 2359 |



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 |
|--------|----------------------|----------------------|---------------------|--------|----------------------|----------------------|---------------------|
| 01 Jul | 180 | 15 | 5 | 15 Jul | 175 | 10 | 3 |
| 02 | 180 | 12 | 4 | 16 | 175 | 8 | 3 |
| 03 | 175 | 12 | 4 | 17 | 175 | 5 | 2 |
| 04 | 170 | 10 | 3 | 18 | 180 | 5 | 2 |
| 05 | 170 | 5 | 2 | 19 | 180 | 5 | 2 |
| 06 | 170 | 5 | 2 | 20 | 180 | 10 | 3 |
| 07 | 170 | 5 | 2 | 21 | 180 | 8 | 3 |
| 08 | 170 | 5 | 2 | 22 | 185 | 5 | 2 |
| 09 | 170 | 5 | 2 | 23 | 180 | 5 | 2 |
| 10 | 170 | 5 | 2 | 24 | 180 | 5 | 2 |
| 11 | 170 | 5 | 2 | 25 | 180 | 5 | 2 |
| 12 | 170 | 5 | 2 | 26 | 180 | 5 | 2 |
| 13 | 170 | 5 | 2 | 27 | 180 | 5 | 2 |
| 14 | 180 | 10 | 3 | | | | |

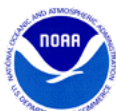


Energetic Events

| 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 |
| 24 Jun | 0408 | 0417 | 0423 | M1.3 | 0.008 | | | | 3712 | | | |
| 24 Jun | 0445 | 0452 | 0456 | M1.8 | 0.010 | | | | 3712 | | | |
| 24 Jun | 1109 | 1113 | 1115 | M1.1 | 0.004 | 1F | S05E18 | | 3720 | | | |
| 24 Jun | 1144 | 1148 | 1153 | M1.5 | 0.007 | | | | 3713 | | 150 | |
| 24 Jun | 1902 | 1910 | 1914 | M1.1 | 0.005 | | | | 3713 | | | |
| 25 Jun | 1226 | 1245 | 1306 | M1.0 | 0.019 | SF | S18E58 | | 3723 | | | |

Flare List

| Date | Time | | | X-ray Class | Imp/ Brtns | Location Lat CMD | Rgn # |
|--------|-------|------|------|----------------|---------------|---------------------|----------|
| | Begin | Max | End | | | | |
| 24 Jun | 0103 | 0104 | 0107 | | SF | S13W77 | 3713 |
| 24 Jun | 0408 | 0417 | 0423 | M1.3 | | | 3712 |
| 24 Jun | 0445 | 0452 | 0456 | M1.8 | | | 3712 |
| 24 Jun | 0549 | 0626 | 0722 | | SF | S04E21 | 3720 |
| 24 Jun | 0650 | 0653 | 0659 | | SF | S17E71 | 3723 |
| 24 Jun | 0819 | 0821 | 0826 | | SF | S05E20 | 3720 |
| 24 Jun | 0822 | 0824 | 0833 | | SF | S14W77 | 3713 |
| 24 Jun | 0955 | 0956 | 1007 | | SF | S05E20 | 3720 |
| 24 Jun | 1014 | 1022 | 1030 | | SF | S15W80 | 3713 |
| 24 Jun | 1106 | 1112 | 1130 | M1.1 | 1F | S05E18 | 3720 |
| 24 Jun | 1144 | 1148 | 1153 | M1.5 | | | 3713 |
| 24 Jun | 1319 | 1324 | 1329 | C8.6 | | | 3713 |
| 24 Jun | 1355 | 1357 | 1402 | C7.5 | 1N | S05E18 | 3720 |
| 24 Jun | 1359 | 1400 | 1402 | | SF | S15W80 | 3713 |
| 24 Jun | 1554 | 1554 | 1602 | | SF | S14W82 | 3713 |
| 24 Jun | 1606 | 1610 | 1614 | C8.3 | | | 3713 |
| 24 Jun | 1643 | 1645 | 1654 | | SF | S14W79 | 3713 |
| 24 Jun | 1645 | 1646 | 1650 | | SF | S05E17 | 3720 |
| 24 Jun | 1701 | 1713 | 1726 | C7.8 | | | 3723 |
| 24 Jun | 1902 | 1910 | 1914 | M1.1 | | | 3713 |
| 24 Jun | 1923 | 1926 | 1935 | C5.8 | | | 3716 |
| 24 Jun | 2051 | 2051 | 2058 | | SF | S13E05 | 3719 |
| 24 Jun | 2128 | 2130 | 2140 | | SF | S20E66 | 3723 |
| 25 Jun | 1226 | 1245 | 1306 | M1.0 | SF | S18E58 | 3723 |
| 25 Jun | 1915 | 1925 | 1935 | C5.6 | SN | S19E46 | 3723 |



Flare List

| Date | Time | | | X-ray Class | Imp/ Brtns | Optical | |
|--------|-------|------|-------|----------------|---------------|---------------------|----------|
| | Begin | Max | End | | | Location Lat CMD | Rgn # |
| 25 Jun | 2003 | 2013 | 2033 | C3.3 | SF | S19E48 | 3723 |
| 25 Jun | 2042 | 2055 | 2059 | | SF | S19E48 | 3723 |
| 25 Jun | 2150 | 2152 | 2154 | | SF | S14E27 | 3724 |
| 25 Jun | 2158 | 2204 | 2211 | C3.7 | | | 3727 |
| 25 Jun | 2218 | 2218 | 2222 | | SF | N25E31 | 3721 |
| 25 Jun | 2222 | 2230 | 2311 | | SF | S11W05 | 3719 |
| 25 Jun | 2223 | 2230 | 2311 | | SF | S06W06 | 3720 |
| 26 Jun | 0008 | 0012 | 0017 | C4.7 | | | 3727 |
| 26 Jun | 0021 | 0022 | 0024 | | SF | S10E26 | 3724 |
| 26 Jun | 1320 | 1321 | A1400 | | SF | S19E37 | 3723 |
| 26 Jun | 1442 | 1530 | 1558 | C6.2 | SF | S26E45 | 3723 |
| 27 Jun | 0109 | 0118 | 0125 | C3.1 | | | 3723 |
| 27 Jun | 0221 | 0230 | 0237 | C2.9 | | | 3723 |
| 27 Jun | 0321 | 0345 | 0356 | C2.5 | | | 3729 |
| 27 Jun | 0356 | 0428 | 0444 | C4.8 | SF | S02E65 | 3729 |
| 27 Jun | 0947 | 0955 | 1007 | C2.0 | | | 3727 |
| 27 Jun | 1431 | 1438 | 1443 | C3.1 | SF | S19E25 | 3723 |
| 27 Jun | 1542 | 1550 | 1557 | C2.1 | | | 3723 |
| 27 Jun | 1622 | 1625 | 1629 | | SF | S17E42 | 3727 |
| 27 Jun | 1702 | 1712 | 1719 | C2.0 | SF | S18W42 | 3719 |
| 27 Jun | 1935 | 1935 | 1940 | | SF | S24E31 | 3728 |
| 27 Jun | 1946 | 1954 | 2010 | C2.4 | | | 3728 |
| 27 Jun | 2136 | 2140 | 2143 | C2.7 | | | 3723 |
| 27 Jun | 2143 | 2153 | 2201 | C4.0 | | | 3727 |
| 27 Jun | 2338 | 2347 | 2351 | C6.6 | | | 3730 |
| 28 Jun | 0154 | 0208 | 0223 | C3.9 | | | |
| 28 Jun | 0223 | 0227 | 0231 | C3.7 | | | 3728 |
| 28 Jun | 0433 | 0433 | 0445 | | SF | S06E54 | 3729 |
| 28 Jun | 0625 | 0630 | 0639 | C2.0 | | | 3727 |
| 28 Jun | 0626 | 0628 | 0639 | | SF | S19E29 | 3728 |
| 28 Jun | 0918 | 0925 | 0932 | C1.8 | | | |
| 28 Jun | 0932 | 0935 | 0939 | C1.8 | | | |
| 28 Jun | 1135 | 1142 | 1147 | C2.3 | | | 3728 |
| 28 Jun | B1405 | 1405 | 1409 | | SF | S18E12 | 3723 |
| 28 Jun | 1412 | 1413 | 1421 | | SF | S20E16 | 3723 |
| 28 Jun | 1426 | 1440 | 1448 | C3.2 | | | |
| 28 Jun | 1426 | 1426 | 1430 | | SF | S17E34 | 3727 |
| 28 Jun | 1532 | 1533 | 1540 | | SF | S17E11 | 3723 |



Flare List

| Date | Time | | | X-ray Class | Optical | | Rgn # |
|--------|-------|------|------|----------------|---------------|---------------------|----------|
| | Begin | Max | End | | Imp/ Brtns | Location Lat CMD | |
| 28 Jun | 1630 | 1632 | 1639 | | SF | S17E09 | 3723 |
| 28 Jun | 1704 | 1704 | 1711 | | SF | S05E25 | 3727 |
| 28 Jun | 1836 | 1845 | 1852 | C2.3 | SF | S17E08 | 3723 |
| 28 Jun | 2052 | 2053 | 2054 | | SF | S25E19 | 3728 |
| 29 Jun | 0602 | 0611 | 0620 | C2.4 | | | 3734 |
| 29 Jun | 0851 | 0852 | 0856 | | SF | S19E19 | 3728 |
| 29 Jun | 1308 | 1313 | 1322 | C2.3 | | | 3728 |
| 29 Jun | 1509 | 1515 | 1520 | C1.8 | SF | N12E75 | 3734 |
| 29 Jun | 1520 | 1529 | 1532 | C5.6 | | | 3734 |
| 29 Jun | 1532 | 1538 | 1546 | C5.9 | | | 3734 |
| 29 Jun | 2240 | 2243 | 2248 | C2.2 | | | 3734 |
| 29 Jun | 2359 | 0014 | 0036 | C2.1 | | | 3734 |
| 30 Jun | 0407 | 0416 | 0428 | C2.2 | | | 3723 |
| 30 Jun | 0428 | 0434 | 0439 | C1.9 | | | 3731 |
| 30 Jun | 0548 | 0618 | 0639 | C3.8 | SF | N11E70 | 3734 |
| 30 Jun | 0807 | 0809 | 0817 | | SF | N05E24 | 3733 |
| 30 Jun | 0954 | 0956 | 1002 | | SF | N05E24 | 3733 |
| 30 Jun | 1048 | 1053 | 1055 | | SF | N05E24 | 3733 |
| 30 Jun | 1301 | 1303 | 1322 | | SF | S18W33 | 3724 |
| 30 Jun | 2056 | 2103 | 2110 | C2.8 | SF | S19W05 | 3727 |
| 30 Jun | 2221 | 2228 | 2237 | C2.2 | | | |
| 30 Jun | 2329 | 2339 | 2355 | C2.2 | | | |



Region Summary

| Date | Location | | Sunspot Characteristics | | | | | Flares | | | | | | | | |
|--------------------|----------|-----|-------------------------|-----------------------|---------|-------|-------|--------|-------|---|---|---------|---|---|---|---|
| | Lat | CMD | Helio | Area | Extent | Spot | Spot | Mag | X-ray | | | Optical | | | | |
| | | | Lon | 10 ⁶ hemi. | (helio) | Class | Count | Class | C | M | X | S | 1 | 2 | 3 | 4 |
| Region 3712 | | | | | | | | | | | | | | | | |
| 12 Jun | S24E52 | | 172 | 180 | 6 | Dao | 11 | B | 1 | | | 4 | | | | |
| 13 Jun | S24E38 | | 173 | 240 | 9 | Dac | 18 | BG | 1 | | | 7 | | | | |
| 14 Jun | S24E25 | | 171 | 300 | 11 | Ekc | 23 | BGD | 12 | 1 | | 3 | 1 | | | |
| 15 Jun | S25E14 | | 170 | 850 | 12 | Ekc | 18 | BGD | 23 | 1 | | 29 | | | | |
| 16 Jun | S26E01 | | 169 | 1000 | 14 | Ekc | 31 | BGD | 20 | | | 16 | 5 | | | |
| 17 Jun | S26W12 | | 170 | 1100 | 14 | Ekc | 40 | BGD | 6 | 2 | | 14 | 1 | | | |
| 18 Jun | S26W26 | | 170 | 1150 | 14 | Ekc | 40 | BGD | 9 | 2 | | 6 | 1 | | | |
| 19 Jun | S24W39 | | 170 | 1160 | 14 | Ekc | 21 | BGD | 2 | | | 7 | | | | |
| 20 Jun | S24W52 | | 170 | 1050 | 15 | Ekc | 15 | BGD | | | | 2 | 1 | | | |
| 21 Jun | S26W65 | | 170 | 750 | 15 | Ekc | 9 | BG | 2 | | | 2 | | | | |
| 22 Jun | S25W77 | | 168 | 720 | 15 | Ekc | 9 | BG | 3 | | | 4 | | | | |
| 23 Jun | S25W90 | | 168 | 220 | 11 | Eao | 4 | BG | 2 | 1 | | 2 | | | | |
| | | | | | | | | | 81 | 7 | 0 | 96 | 9 | 0 | 0 | 0 |

Crossed West Limb.
Absolute heliographic longitude: 169

| | | | | | | | | | | | | | | | | |
|--------------------|--------|--|-----|-----|----|-----|----|-----|----|---|---|----|---|---|---|---|
| Region 3713 | | | | | | | | | | | | | | | | |
| 12 Jun | S13E68 | | 156 | 150 | 8 | Dso | 3 | B | 2 | | | 1 | | | | |
| 13 Jun | S13E54 | | 157 | 170 | 8 | Dso | 9 | B | 2 | 1 | | 1 | 1 | | | |
| 14 Jun | S11E37 | | 159 | 100 | 6 | Dso | 7 | BG | 1 | | | 2 | | | | |
| 15 Jun | S14E29 | | 155 | 130 | 10 | Dso | 10 | BG | 1 | | | 1 | 1 | | | |
| 16 Jun | S15E15 | | 155 | 200 | 11 | Eso | 18 | BG | 1 | | | 1 | | | | |
| 17 Jun | S16E01 | | 157 | 150 | 11 | Eso | 15 | BG | 1 | | | 7 | | | | |
| 18 Jun | S16W13 | | 157 | 170 | 11 | Esi | 20 | BG | 1 | | | 2 | 1 | | | |
| 19 Jun | S15W27 | | 158 | 460 | 12 | Ekc | 49 | BGD | 3 | | | 6 | | | | |
| 20 Jun | S14W39 | | 157 | 740 | 11 | Ekc | 29 | BGD | 1 | | | 3 | | | | |
| 21 Jun | S14W53 | | 158 | 950 | 11 | Ekc | 24 | BGD | 5 | | | 4 | | | | |
| 22 Jun | S14W65 | | 156 | 910 | 11 | Ekc | 24 | BGD | 1 | | | 2 | | | | |
| 23 Jun | S14W78 | | 156 | 440 | 13 | Ekc | 11 | BGD | | | | 7 | | | | |
| 24 Jun | S14W88 | | 153 | 360 | 12 | Ekc | 6 | BG | 2 | 2 | | 6 | | | | |
| | | | | | | | | | 21 | 3 | 0 | 43 | 3 | 0 | 0 | 0 |

Crossed West Limb.
Absolute heliographic longitude: 157



Region Summary - continued

| Date | Location | | Sunspot Characteristics | | | | | Flares | | | | | | | | |
|--------------------|----------|-----|-------------------------|------------------------|---------|-------|-------|--------|-------|---|----|---------|----|---|---|---|
| | Lat | CMD | Helio | Area | Extent | Spot | Spot | Mag | X-ray | | | Optical | | | | |
| | | | Lon | 10 ⁻⁶ hemi. | (helio) | Class | Count | Class | C | M | X | S | 1 | 2 | 3 | 4 |
| Region 3716 | | | | | | | | | | | | | | | | |
| 12 Jun | N10E62 | 162 | 20 | 3 | Cro | 3 | B | | | | | | | | | |
| 13 Jun | N10E48 | 163 | 60 | 3 | Dao | 5 | B | | | | | | | | | |
| 14 Jun | N11E34 | 162 | 80 | 5 | Dso | 5 | B | | | | | | | | | |
| 15 Jun | N10E23 | 161 | 140 | 8 | Dsi | 19 | B | | | | | | 4 | | | |
| 16 Jun | N09E09 | 161 | 180 | 9 | Dac | 20 | B | 1 | | | | | 4 | | | |
| 17 Jun | N10W05 | 163 | 480 | 10 | Dkc | 35 | BG | | | | | | 1 | | | |
| 18 Jun | N10W19 | 163 | 310 | 10 | Dki | 24 | BG | | | | | | | | | |
| 19 Jun | N10W32 | 163 | 370 | 10 | Dki | 25 | BG | | | | | | 11 | | | |
| 20 Jun | N10W46 | 164 | 430 | 12 | Ekc | 22 | BG | 2 | | | | | 2 | | | |
| 21 Jun | N10W59 | 164 | 500 | 12 | Ekc | 14 | BG | 1 | | | | | 5 | | | |
| 22 Jun | N10W72 | 163 | 450 | 12 | Ekc | 10 | BG | 1 | 1 | | | | 3 | 1 | | |
| 23 Jun | N10W85 | 163 | 230 | 12 | Eao | 6 | B | 1 | 1 | | | | | 1 | | |
| 24 Jun | N09W95 | 160 | 200 | 11 | Eao | 4 | B | 1 | | | | | | | | |
| | | | | | | | | 7 | 2 | 0 | 30 | 2 | 0 | 0 | 0 | |

Crossed West Limb.
 Absolute heliographic longitude: 163

| | | | | | | | | | | | | | | | | |
|--------------------|--------|-----|-------|---|-----|---|---|---|---|---|---|---|---|---|---|--|
| Region 3718 | | | | | | | | | | | | | | | | |
| 19 Jun | N15E13 | 118 | 20 | 3 | Cro | 3 | B | 1 | | | | | 1 | | | |
| 20 Jun | N14W00 | 118 | 20 | 1 | Hrx | 1 | A | | | | | | | | | |
| 21 Jun | N12W13 | 118 | plage | | | | | | | | | | | | | |
| 22 Jun | N12W27 | 118 | plage | | | | | | | | | | | | | |
| 23 Jun | N12W41 | 119 | plage | | | | | | | | | | | | | |
| 24 Jun | N12W55 | 120 | plage | | | | | | | | | | | | | |
| 25 Jun | N12W69 | 121 | plage | | | | | | | | | | | | | |
| 26 Jun | N12W83 | 121 | plage | | | | | | | | | | | | | |
| | | | | | | | | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | |

Crossed West Limb.
 Absolute heliographic longitude: 118



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 3719 | | | | | | | | | | | | | | | | | | |
| 19 Jun | S12E68 | 63 | 20 | 3 | Cro | 7 | B | | | | | | | | | | | |
| 20 Jun | S13E55 | 63 | 70 | 8 | Dao | 6 | B | 3 | 2 | | | 3 | 2 | | | | | |
| 21 Jun | S13E41 | 64 | 90 | 8 | Dao | 5 | B | | | | | | | | | | | |
| 22 Jun | S14E24 | 67 | 150 | 9 | Dso | 10 | B | | | | | | | | | | | |
| 23 Jun | S15E11 | 67 | 230 | 10 | Dao | 14 | B | 1 | | | | 3 | | | | | | |
| 24 Jun | S14E02 | 63 | 250 | 9 | Cki | 14 | B | | | | | 1 | | | | | | |
| 25 Jun | S14W12 | 64 | 150 | 10 | Dso | 13 | B | | | | | 1 | | | | | | |
| 26 Jun | S15W25 | 63 | 170 | 8 | Cso | 7 | B | | | | | | | | | | | |
| 27 Jun | S15W39 | 64 | 140 | 4 | Cso | 3 | B | 1 | | | | 1 | | | | | | |
| 28 Jun | S16W55 | 67 | 240 | 4 | Cso | 3 | B | | | | | | | | | | | |
| 29 Jun | S16W69 | 68 | 240 | 4 | Cso | 4 | B | | | | | | | | | | | |
| 30 Jun | S16W81 | 67 | 220 | 4 | Cso | 2 | B | | | | | | | | | | | |
| | | | | | | | | 5 | 2 | 0 | 9 | 2 | 0 | 0 | 0 | | | |

Still on Disk.

Absolute heliographic longitude: 63

| | | | | | | | | | | | | | | | | | | |
|--------------------|--------|----|-----|---|-----|----|----|---|---|---|----|----|---|---|---|--|--|--|
| Region 3720 | | | | | | | | | | | | | | | | | | |
| 19 Jun | S04E77 | 54 | 30 | 3 | Dao | 5 | B | | | | | | | | | | | |
| 20 Jun | S05E62 | 55 | 60 | 9 | Dao | 5 | B | | | | | | | | | | | |
| 21 Jun | S05E49 | 56 | 80 | 4 | Cao | 8 | B | 2 | | | | 3 | | | | | | |
| 22 Jun | S05E36 | 55 | 120 | 8 | Dai | 13 | B | 1 | 1 | | | 11 | 2 | | | | | |
| 23 Jun | S05E23 | 55 | 140 | 9 | Dai | 13 | B | 1 | | | | | | | | | | |
| 24 Jun | S06E11 | 54 | 150 | 8 | Dai | 15 | BG | 1 | 1 | | | 4 | 2 | | | | | |
| 25 Jun | S06W03 | 55 | 130 | 8 | Dai | 15 | BG | | | | | 1 | | | | | | |
| 26 Jun | S06W16 | 54 | 130 | 8 | Dai | 18 | B | | | | | | | | | | | |
| 27 Jun | S06W30 | 55 | 90 | 8 | Dao | 6 | B | | | | | | | | | | | |
| 28 Jun | S05W43 | 55 | 80 | 8 | Dao | 5 | B | | | | | | | | | | | |
| 29 Jun | S05W56 | 55 | 30 | 8 | Cro | 3 | B | | | | | | | | | | | |
| 30 Jun | S05W67 | 53 | 30 | 4 | Bxo | 3 | B | | | | | | | | | | | |
| | | | | | | | | 5 | 2 | 0 | 19 | 4 | 0 | 0 | 0 | | | |

Still on Disk.

Absolute heliographic longitude: 55



Region Summary - continued

| Date | Location | | Sunspot Characteristics | | | | | Flares | | | | | | | | | | | | | | | |
|--------------------|----------|-----|---------------------------------|------|-------------------|---------------|---------------|--------------|-------|---|---|---------|---|---|---|---|---|---|--|--|--|--|--|
| | Lat CMD | Lon | Helio 10 ⁻⁶ hemi. | Area | Extent (helio) | Spot Class | Spot Count | Mag Class | X-ray | | | Optical | | | | | | | | | | | |
| | | | | | | | | | C | M | X | S | 1 | 2 | 3 | 4 | | | | | | | |
| Region 3721 | | | | | | | | | | | | | | | | | | | | | | | |
| 21 Jun | N27E59 | | 46 | 20 | 1 | Hsx | 1 | A | | | | | | | | | | | | | | | |
| 22 Jun | N26E59 | | 32 | 90 | 1 | Hsx | 1 | A | | | | | | | | | | | | | | | |
| 23 Jun | N26E50 | | 28 | 100 | 3 | Hsx | 1 | A | 1 | | | | | | | | | | | | | | |
| 24 Jun | N25E38 | | 26 | 100 | 4 | Hax | 1 | A | | | | | | | | | | | | | | | |
| 25 Jun | N25E24 | | 28 | 100 | 3 | Hax | 2 | A | | | | | 1 | | | | | | | | | | |
| 26 Jun | N25E11 | | 27 | 100 | 3 | Hax | 2 | A | | | | | | | | | | | | | | | |
| 27 Jun | N25W02 | | 27 | 90 | 3 | Hax | 2 | A | | | | | | | | | | | | | | | |
| 28 Jun | N26W15 | | 27 | 110 | 3 | Hax | 3 | A | | | | | | | | | | | | | | | |
| 29 Jun | N26W28 | | 27 | 90 | 3 | Hax | 3 | A | | | | | | | | | | | | | | | |
| 30 Jun | N26W41 | | 27 | 60 | 2 | Hax | 3 | A | | | | | | | | | | | | | | | |
| | | | | | | | | | 1 | 0 | 0 | | 1 | 0 | 0 | 0 | 0 | 0 | | | | | |

Still on Disk.

Absolute heliographic longitude: 27

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--------|--|-----|-----|---|-----|---|---|---|---|---|--|---|---|---|---|---|---|--|--|--|--|--|
| Region 3722 | | | | | | | | | | | | | | | | | | | | | | | |
| 21 Jun | S09E59 | | 162 | 30 | 3 | Dso | 2 | B | | | | | | | | | | | | | | | |
| 22 Jun | S13E62 | | 29 | 110 | 4 | Dso | 2 | B | 1 | | | | | | | | | | | | | | |
| 23 Jun | S14E50 | | 28 | 60 | 3 | Hsx | 1 | A | 1 | | | | | | | | | | | | | | |
| 24 Jun | S12E34 | | 29 | 50 | 2 | Hsx | 1 | A | | | | | | | | | | | | | | | |
| 25 Jun | S12E22 | | 30 | 50 | 2 | Hsx | 1 | A | | | | | | | | | | | | | | | |
| 26 Jun | S12E09 | | 29 | 60 | 2 | Hsx | 1 | A | | | | | | | | | | | | | | | |
| 27 Jun | S12W05 | | 30 | 60 | 2 | Hsx | 1 | A | | | | | | | | | | | | | | | |
| 28 Jun | S11W17 | | 29 | 90 | 2 | Hsx | 1 | A | | | | | | | | | | | | | | | |
| 29 Jun | S11W30 | | 29 | 90 | 2 | Hsx | 1 | A | | | | | | | | | | | | | | | |
| 30 Jun | S11W43 | | 29 | 80 | 2 | Hsx | 1 | A | | | | | | | | | | | | | | | |
| | | | | | | | | | 2 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |

Still on Disk.

Absolute heliographic longitude: 30



Region Summary - continued

| Date | Location | | Sunspot Characteristics | | | | Flares | | | | | | | | | | |
|--------------------|----------|-----|-------------------------------|-------------------|---------------|---------------|--------------|-------|---|---|---------|---|---|---|---|---|--|
| | Lat CMD | 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 3723 | | | | | | | | | | | | | | | | | |
| 23 Jun | S18E67 | 11 | 150 | 8 | Dao | 5 | B | 1 | 1 | | 1 | 1 | | | | | |
| 24 Jun | S19E54 | 11 | 180 | 9 | Dso | 7 | B | 1 | | | 2 | | | | | | |
| 25 Jun | S19E44 | 8 | 210 | 17 | Fai | 12 | BGD | 2 | 1 | | 4 | | | | | | |
| 26 Jun | S19E30 | 8 | 170 | 17 | Fai | 7 | BGD | 1 | | | 2 | | | | | | |
| 27 Jun | S19E21 | 6 | 110 | 9 | Dao | 10 | BG | 5 | | | 1 | | | | | | |
| 28 Jun | S20E07 | 5 | 50 | 6 | Cro | 6 | B | 1 | | | 5 | | | | | | |
| 29 Jun | S20W07 | 6 | 20 | 4 | Bxo | 4 | B | | | | | | | | | | |
| 30 Jun | S20W21 | 7 | 10 | 1 | Bxo | 2 | B | 1 | | | | | | | | | |
| | | | | | | | | 12 | 2 | 0 | 15 | 1 | 0 | 0 | 0 | 0 | |

Still on Disk.

Absolute heliographic longitude: 5

| | | | | | | | | | | | | | | | | | |
|--------------------|--------|----|----|---|-----|---|---|---|---|---|---|---|---|---|---|---|--|
| Region 3724 | | | | | | | | | | | | | | | | | |
| 23 Jun | S11E48 | 30 | 60 | 3 | Hsx | 1 | A | | | | | | | | | | |
| 24 Jun | S14E35 | 28 | 50 | 2 | Hsx | 1 | A | | | | | | | | | | |
| 25 Jun | S14E22 | 30 | 50 | 2 | Hsx | 1 | A | | | | 1 | | | | | | |
| 26 Jun | S14E08 | 30 | 50 | 2 | Hsx | 1 | A | | | | 1 | | | | | | |
| 27 Jun | S14W04 | 29 | 50 | 2 | Hsx | 1 | A | | | | | | | | | | |
| 28 Jun | S14W17 | 29 | 80 | 2 | Hsx | 1 | A | | | | | | | | | | |
| 29 Jun | S15W30 | 29 | 80 | 2 | Hsx | 1 | A | | | | | | | | | | |
| 30 Jun | S15W43 | 29 | 60 | 1 | Hsx | 1 | A | | | | 1 | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | |

Still on Disk.

Absolute heliographic longitude: 29

| | | | | | | | | | | | | | | | | | |
|--------------------|--------|----|-------|---|-----|---|----|---|---|---|---|---|---|---|---|---|--|
| Region 3725 | | | | | | | | | | | | | | | | | |
| 23 Jun | N18E41 | 37 | 90 | 5 | Dai | 4 | BD | | | | | | | | | | |
| 24 Jun | N18E27 | 38 | plage | | | | | | | | | | | | | | |
| 25 Jun | N18E13 | 39 | plage | | | | | | | | | | | | | | |
| 26 Jun | N18W01 | 39 | plage | | | | | | | | | | | | | | |
| 27 Jun | N18W15 | 40 | plage | | | | | | | | | | | | | | |
| 28 Jun | N18W29 | 41 | plage | | | | | | | | | | | | | | |
| 29 Jun | N18W43 | 42 | plage | | | | | | | | | | | | | | |
| 30 Jun | N18W57 | 43 | plage | | | | | | | | | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |

Still on Disk.

Absolute heliographic longitude: 39



Region Summary - continued

| Date | Location | | Sunspot Characteristics | | | | Flares | | | | | | | | | | | | | | |
|--------------------|----------|-----|---------------------------------|------|-------------------|---------------|---------------|--------------|-------|---|---|---------|---|---|---|---|---|---|---|--|--|
| | Lat CMD | Lon | Helio 10 ⁻⁶ hemi. | Area | Extent (helio) | Spot Class | Spot Count | Mag Class | X-ray | | | Optical | | | | | | | | | |
| | | | | | | | | | C | M | X | S | 1 | 2 | 3 | 4 | | | | | |
| Region 3726 | | | | | | | | | | | | | | | | | | | | | |
| 23 Jun | S02E57 | 57 | 30 | 3 | Cao | 6 | B | | | | | | | | | | | | | | |
| 24 Jun | S04E51 | 13 | 0 | 6 | Bxo | 2 | B | | | | | | | | | | | | | | |
| 25 Jun | S04E35 | 17 | plage | | | | | | | | | | | | | | | | | | |
| 26 Jun | S04E20 | 18 | plage | | | | | | | | | | | | | | | | | | |
| 27 Jun | S04E05 | 20 | plage | | | | | | | | | | | | | | | | | | |
| 28 Jun | S04W10 | 22 | plage | | | | | | | | | | | | | | | | | | |
| 29 Jun | S04W25 | 24 | plage | | | | | | | | | | | | | | | | | | |
| 30 Jun | S04W40 | 26 | plage | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |

Still on Disk.

Absolute heliographic longitude: 20

| | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--------|-----|-----|---|-----|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| Region 3727 | | | | | | | | | | | | | | | | | | | | | |
| 25 Jun | S18E59 | 353 | 80 | 2 | Hsx | 1 | A | 1 | | | | | | | | | | | | | |
| 26 Jun | S18E46 | 352 | 100 | 3 | Cso | 3 | B | 1 | | | | | | | | | | | | | |
| 27 Jun | S18E32 | 353 | 110 | 5 | Cso | 7 | B | 2 | | | 1 | | | | | | | | | | |
| 28 Jun | S18E20 | 352 | 230 | 4 | Hsx | 2 | A | 1 | | 2 | | | | | | | | | | | |
| 29 Jun | S18E09 | 350 | 220 | 5 | Cso | 6 | B | | | | | | | | | | | | | | |
| 30 Jun | S19W02 | 348 | 220 | 6 | Cao | 5 | B | 1 | | | 1 | | | | | | | | | | |
| | | | | | | | | 6 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | | | | | |

Still on Disk.

Absolute heliographic longitude: 348

| | | | | | | | | | | | | | | | | | | | | | |
|--------------------|--------|-----|-----|---|-----|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|
| Region 3728 | | | | | | | | | | | | | | | | | | | | | |
| 25 Jun | S25E55 | 357 | 10 | 2 | Bxo | 4 | B | | | | | | | | | | | | | | |
| 26 Jun | S27E42 | 356 | 10 | 2 | Bxo | 2 | B | | | | | | | | | | | | | | |
| 27 Jun | S27E28 | 357 | 30 | 3 | Cao | 4 | B | 1 | | | 1 | | | | | | | | | | |
| 28 Jun | S27E17 | 355 | 100 | 5 | Dso | 5 | B | 2 | | 2 | | | | | | | | | | | |
| 29 Jun | S27E04 | 355 | 80 | 5 | Dao | 7 | B | 1 | | 1 | | | | | | | | | | | |
| 30 Jun | S27W09 | 355 | 60 | 5 | Dao | 5 | B | | | | | | | | | | | | | | |
| | | | | | | | | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | | | | | |

Still on Disk.

Absolute heliographic longitude: 355



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 3729 | | | | | | | | | | | | | | | | | | |
| 26 Jun | S03E65 | 333 | 60 | 5 | Dso | 4 | B | | | | | | | | | | | |
| 27 Jun | S03E52 | 333 | 110 | 10 | Dai | 7 | B | 2 | | | | 1 | | | | | | |
| 28 Jun | S04E42 | 330 | 240 | 14 | Eao | 8 | B | | | | | 1 | | | | | | |
| 29 Jun | S05E29 | 330 | 220 | 14 | Eao | 10 | B | | | | | | | | | | | |
| 30 Jun | S04E14 | 332 | 200 | 14 | Eai | 12 | B | | | | | | | | | | | |
| | | | | | | | | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Still on Disk.
Absolute heliographic longitude: 332

| | | | | | | | | | | | | | | | | | | |
|--------------------|--------|----|----|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Region 3730 | | | | | | | | | | | | | | | | | | |
| 27 Jun | S18E09 | 16 | 30 | 5 | Cso | 5 | B | 1 | | | | | | | | | | |
| 28 Jun | S18W05 | 17 | 50 | 5 | Cao | 5 | B | | | | | | | | | | | |
| 29 Jun | S18W20 | 19 | 20 | 4 | Cro | 4 | B | | | | | | | | | | | |
| 30 Jun | S18W33 | 19 | 10 | 1 | Axx | 1 | A | | | | | | | | | | | |
| | | | | | | | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Still on Disk.
Absolute heliographic longitude: 17

| | | | | | | | | | | | | | | | | | | |
|--------------------|--------|-----|----|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Region 3731 | | | | | | | | | | | | | | | | | | |
| 28 Jun | S16E49 | 323 | 10 | 1 | Axx | 1 | A | | | | | | | | | | | |
| 29 Jun | S16E35 | 324 | 10 | 1 | Axx | 1 | A | | | | | | | | | | | |
| 30 Jun | S16E21 | 325 | 10 | 1 | Axx | 1 | A | 1 | | | | | | | | | | |
| | | | | | | | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Still on Disk.
Absolute heliographic longitude: 325

| | | | | | | | | | | | | | | | | | | |
|--------------------|--------|-----|----|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Region 3732 | | | | | | | | | | | | | | | | | | |
| 28 Jun | S19E14 | 358 | 40 | 2 | Hax | 2 | A | | | | | | | | | | | |
| 29 Jun | S19E02 | 357 | 40 | 2 | Hax | 2 | A | | | | | | | | | | | |
| 30 Jun | S19W11 | 357 | 30 | 3 | Cao | 4 | B | | | | | | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Still on Disk.
Absolute heliographic longitude: 357



Region Summary - continued

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

Region 3733

| | | | | | | | | | | | | | | | | | | |
|--------|--------|-----|----|---|-----|---|---|---|---|---|---|---|---|---|---|--|--|--|
| 29 Jun | N05E28 | 331 | 30 | 5 | Cao | 5 | B | | | | | | | | | | | |
| 30 Jun | N05E14 | 332 | 40 | 7 | Dao | 4 | B | | | | | 3 | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | | | |

Still on Disk.

Absolute heliographic longitude: 332

Region 3734

| | | | | | | | | | | | | | | | | | | |
|--------|--------|-----|----|---|-----|---|---|---|---|---|---|---|---|---|---|--|--|--|
| 29 Jun | N08E70 | 289 | 60 | 7 | Cao | 3 | B | 6 | | | | | | | | | | |
| 30 Jun | N08E59 | 287 | 60 | 9 | Dao | 4 | B | 1 | | | 1 | | | | | | | |
| | | | | | | | | 7 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | | | |

Still on Disk.

Absolute heliographic longitude: 287

Region 3735

| | | | | | | | | | | | | | | | | | | |
|--------|--------|-----|----|---|-----|---|---|---|---|---|---|---|---|---|---|--|--|--|
| 29 Jun | N17E75 | 284 | 20 | 2 | Hsx | 1 | A | | | | | | | | | | | |
| 30 Jun | N17E62 | 284 | 60 | 2 | Hsx | 1 | A | | | | | | | | | | | |
| | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | |

Still on Disk.

Absolute heliographic longitude: 284



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

