TABLE 2.—*Average daily totals of solar radiation (direct+diffuse) received on a horizontal surface*

| Week beginning— | Washington | Madison | Lincoln | Chicago | New York | Fresno | Fairbanks | Twin Falls | La Jolla | New Orleans | Riverside | Blue Hill | San Juan | Friday Harbor | Ithaca | Newport |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Gram-calories per square centimeter | | | | | | | | | | | | | | | |
| | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* | *cal.* |
| Oct. 29 | 236 | 191 | 209 | 200 | 185 | 264 | 25 | 148 | 342 | 390 | 279 | 170 | 472 | 63 | 174 | 216 |
| Nov. 5 | 214 | 184 | 244 | 172 | 201 | 298 | 36 | 192 | 338 | 384 | 317 | 216 | 338 | 119 | 186 | 271 |
| Nov. 12 | 214 | 198 | 253 | 172 | 146 | 295 | 21 | 170 | 331 | 224 | 317 | 152 | 431 | 92 | 107 | 198 |
| Nov. 19 | 165 | 170 | 256 | 153 | 114 | 266 | 13 | 189 | 314 | 340 | 275 | 118 | 468 | 143 | 102 | 158 |
| Nov. 26 | 195 | 117 | 220 | 128 | 176 | 203 | 14 | 140 | 291 | -------- | 264 | 182 | 506 | 79 | 65 | 216 |
| | Departures of daily totals from normals | | | | | | | | | | | | | | | |
| Oct. 29 | −11 | +5 | −29 | +43 | +4 | −48 | −13 | −72 | +22 | +95 | −21 | −53 | +27 | −63 | +23 | -------- |
| Nov. 5 | −11 | +16 | −2 | +49 | +18 | +48 | +4 | −16 | +10 | +93 | +8 | +13 | −89 | +3 | +50 | -------- |
| Nov. 12 | +19 | +53 | +45 | +66 | +18 | +48 | −7 | +7 | +35 | −12 | +21 | +11 | −6 | 0 | −6 | -------- |
| Nov. 19 | −23 | +38 | +48 | +41 | −13 | +30 | −6 | +34 | +35 | +96 | +4 | −34 | +24 | +39 | 0 | -------- |
| Nov. 26 | +30 | −9 | +32 | +35 | +62 | −19 | +1 | −15 | +26 | -------- | +5 | +27 | +70 | −15 | −29 | -------- |
| | Accumulated departures since Jan. 1 | | | | | | | | | | | | | | | |
| | −11,235 | −588 | +2,310 | +11,494 | +5,110 | −2,828 | +4,697 | −9,163 | −1,232 | +9,548 | −5,880 | −2,835 | +13,174 | +6,832 | +7,736 | -------- |

## POSITIONS AND AREAS OF SUN SPOTS

[Communicated by Capt. J. F. Hellweg, U. S. Navy (Ret.), Superintendent, U. S. Naval Observatory. Data furnished by the U. S. Naval Observatory in cooperation with Harvard and Mount Wilson Observatories. The difference in longitude is measured from the central meridian, positive west. The north latitude is positive. Areas are corrected for foreshortening and are expressed in millionths of the sun's visible hemisphere. The total area for each day includes spots and groups]

| Date | Eastern standard time | | Mt. Wilson group No. | Heliographic: Diff. in longitude | Heliographic: Longitude | Heliographic: Latitude | Area: Spot or group | Area: Total for each day | Spot count | Observatory |
|---|---|---|---|---|---|---|---|---|---|---|
| *1938* | *h* | *m* | | ° | ° | ° | | | | |
| Nov. 1 | 11 | 9 | 6181 | −53.0 | 339.1 | −4.0 | 36 | ------- | 3 | U. S. Naval. |
| | | | 6177 | −42.5 | 349.6 | +11.0 | 194 | ------- | 10 | |
| | | | 6176 | −34.5 | 357.6 | −9.0 | 218 | ------- | 5 | |
| | | | 6175 | −25.0 | 7.1 | +17.0 | 73 | ------- | 6 | |
| | | | 6180 | −24.0 | 8.1 | +8.5 | 36 | ------- | 5 | |
| | | | 6182 | −12.0 | 20.1 | −14.0 | 73 | ------- | 11 | |
| | | | 6168 | +2.5 | 34.6 | +24.0 | 291 | ------- | 36 | |
| | | | 6164 | +12.5 | 44.6 | +13.0 | 121 | ------- | 1 | |
| | | | 6184 | +48.0 | 80.1 | +24.0 | 24 | ------- | 4 | |
| | | | 6173 | +51.0 | 83.1 | +13.0 | 12 | ------- | 4 | |
| | | | 6163 | +75.0 | 107.1 | −23.0 | 194 | ------- | 8 | |
| | | | 6160 | +84.0 | 116.1 | −14.0 | 291 | 1,563 | 6 | |
| Nov. 2 | 11 | 6 | 6187 | −68.0 | 310.9 | +16.0 | 48 | ------- | 2 | Do. |
| | | | 6186 | −61.0 | 317.9 | −31.5 | 12 | ------- | 1 | |
| | | | 6181 | −38.0 | 340.9 | −5.0 | 36 | ------- | 7 | |
| | | | 6177 | −30.0 | 348.9 | +11.0 | 145 | ------- | 9 | |
| | | | 6176 | −21.0 | 357.9 | −9.0 | 145 | ------- | 5 | |
| | | | 6175 | −11.0 | 7.9 | +16.0 | 48 | ------- | 5 | |
| | | | 6180 | −9.5 | 9.4 | +8.0 | 145 | ------- | 16 | |
| | | | 6182 | +3.0 | 21.9 | −14.0 | 48 | ------- | 7 | |
| | | | 6168 | +14.5 | 33.4 | +24.0 | 194 | ------- | 18 | |
| | | | 6164 | +26.0 | 44.9 | +14.0 | 73 | ------- | 1 | |
| | | | 6184 | +63.0 | 81.9 | +24.0 | 24 | ------- | 3 | |
| | | | 6173 | +65.0 | 83.9 | +14.0 | 145 | 1,063 | 20 | |
| Nov. 3 | 11 | 12 | 6187 | −55.0 | 310.7 | +16.0 | 73 | ------- | 4 | Do. |
| | | | 6186 | −48.0 | 317.7 | −31.0 | 6 | ------- | 1 | |
| | | | 6181 | −24.5 | 341.2 | −5.0 | 24 | ------- | 4 | |
| | | | 6177 | −17.0 | 348.7 | +11.0 | 145 | ------- | 15 | |
| | | | 6176 | −7.0 | 358.7 | −9.0 | 97 | ------- | 1 | |
| | | | 6185 | −3.0 | 2.7 | +9.5 | 12 | ------- | 2 | |
| | | | 6175 | +2.0 | 7.7 | +15.5 | 36 | ------- | 2 | |
| | | | 6180 | +3.5 | 9.2 | +8.0 | 291 | ------- | 20 | |
| | | | 6182 | +16.5 | 22.2 | −14.5 | 24 | ------- | 5 | |
| | | | 6188 | +25.0 | 30.7 | +13.0 | 6 | ------- | 2 | |
| | | | 6168 | +27.0 | 32.7 | +25.0 | 194 | ------- | 20 | |
| | | | 6164 | +39.0 | 44.7 | +14.0 | 73 | ------- | 2 | |
| | | | 6173 | +79.0 | 84.7 | +14.0 | 97 | 1,078 | 9 | |
| Nov. 4 | 13 | 9 | 6192 | −84.0 | 267.4 | −10.0 | 776 | ------- | 8 | Do. |
| | | | 6189 | −67.0 | 284.4 | +10.5 | 24 | ------- | 2 | |
| | | | 6191 | −50.0 | 301.4 | +15.0 | 12 | ------- | 4 | |
| | | | 6187 | −39.5 | 311.9 | +16.0 | 73 | ------- | 6 | |
| | | | 6181 | −13.0 | 338.4 | −5.0 | 12 | ------- | 3 | |
| | | | 6181 | −5.0 | 346.4 | −6.0 | 12 | ------- | 3 | |
| | | | 6177 | −2.0 | 349.4 | +11.0 | 121 | ------- | 13 | |
| | | | (*) | +1.0 | 352.4 | −11.0 | 24 | ------- | 5 | |
| | | | 6176 | +8.0 | 359.4 | −9.0 | 97 | ------- | 1 | |
| | | | 6175 | +16.5 | 7.9 | +15.0 | 24 | ------- | 2 | |
| | | | 6180 | +19.0 | 10.4 | +9.0 | 291 | ------- | 15 | |
| | | | 6182 | +31.0 | 22.4 | −15.0 | 36 | ------- | 5 | |
| | | | 6188 | +40.0 | 31.4 | +14.0 | 12 | ------- | 3 | |
| | | | 6168 | +41.0 | 32.4 | +25.0 | 24 | ------- | 6 | |
| | | | 6164 | +53.0 | 44.4 | +14.0 | 61 | 1,599 | 2 | |

## POSITIONS AND AREAS OF SUN SPOTS—Continued

| Date | Eastern standard time | | Mt. Wilson group No. | Heliographic: Diff. in longitude | Heliographic: Longitude | Heliographic: Latitude | Area: Spot or group | Area: Total for each day | Spot count | Observatory |
|---|---|---|---|---|---|---|---|---|---|---|
| *1938* | *h* | *m* | | ° | ° | ° | | | | |
| Nov. 5 | 12 | 26 | 6194 | −85.0 | 253.6 | −19.0 | 194 | ------- | 3 | U. S. Naval. |
| | | | 6192 | −68.0 | 270.6 | −10.0 | 1,939 | ------- | 30 | |
| | | | 6193 | −30.0 | 308.6 | +10.0 | 36 | ------- | 8 | |
| | | | 6187 | −26.0 | 312.6 | +17.0 | 48 | ------- | 1 | |
| | | | 6177 | +7.5 | 346.1 | +10.0 | 24 | ------- | 5 | |
| | | | 6177 | +15.0 | 353.6 | +12.5 | 36 | ------- | 2 | |
| | | | 6176 | +21.5 | 0.1 | −9.0 | 121 | ------- | 2 | |
| | | | 6175 | +30.0 | 8.6 | +16.0 | 24 | ------- | 4 | |
| | | | 6180 | +32.0 | 10.6 | +9.0 | 291 | ------- | 13 | |
| | | | 6182 | +43.0 | 21.6 | −15.0 | 36 | ------- | 5 | |
| | | | 6168 | +54.0 | 32.6 | +25.0 | 12 | ------- | 5 | |
| | | | 6164 | +66.0 | 44.6 | +13.5 | 73 | 2,834 | 2 | |
| Nov. 6 | 10 | 59 | 6194 | −79.0 | 247.2 | −20.0 | 48 | ------- | 3 | Mount Wilson. |
| | | | 6194 | −70.0 | 256.2 | −18.0 | 194 | ------- | 6 | |
| | | | 6192 | −56.0 | 270.2 | −9.0 | 2,424 | ------- | 75 | |
| | | | 6191 | −27.0 | 299.2 | +18.0 | 24 | ------- | 2 | |
| | | | 6193 | −16.0 | 310.2 | +11.0 | 36 | ------- | 3 | |
| | | | 6187 | −13.0 | 313.2 | +17.0 | 48 | ------- | 2 | |
| | | | 6186 | −13.0 | 313.2 | −31.0 | 12 | ------- | 3 | |
| | | | 6196 | −8.5 | 317.7 | +10.0 | 36 | ------- | 5 | |
| | | | 6195 | +7.0 | 333.2 | +15.0 | 170 | ------- | 20 | |
| | | | 6177 | +20.0 | 346.2 | +11.0 | 48 | ------- | 10 | |
| | | | 6177 | +29.0 | 355.2 | +12.0 | 24 | ------- | 4 | |
| | | | 6176 | +36.0 | 2.2 | −8.0 | 85 | ------- | 4 | |
| | | | 6180 | +45.0 | 11.2 | +8.0 | 291 | ------- | 9 | |
| | | | 6182 | +55.0 | 21.2 | −15.0 | 61 | ------- | 2 | |
| | | | 6164 | +79.0 | 45.2 | +13.0 | 36 | 3,537 | 2 | |
| Nov. 7 | 11 | 6 | 6198 | −77.0 | 236.0 | −18.0 | 388 | ------- | 15 | U. S. Naval. |
| | | | 6194 | −64.0 | 249.0 | −20.0 | 61 | ------- | 11 | |
| | | | 6194 | −58.0 | 255.0 | −18.0 | 279 | ------- | 8 | |
| | | | 6192 | −44.0 | 269.0 | −9.0 | 2,424 | ------- | 110 | |
| | | | 6187 | −1.5 | 311.5 | +17.0 | 48 | ------- | 11 | |
| | | | 6196 | −0.5 | 312.5 | −31.0 | 6 | ------- | 2 | |
| | | | 6196 | +3.0 | 316.0 | +9.5 | 48 | ------- | 15 | |
| | | | 6195 | +19.5 | 332.5 | +15.5 | 339 | ------- | 35 | |
| | | | 6177 | +33.0 | 346.0 | +11.0 | 12 | ------- | 8 | |
| | | | 6177 | +40.5 | 353.5 | +13.0 | 6 | ------- | 2 | |
| | | | 6176 | +48.5 | 1.5 | −7.0 | 61 | ------- | 1 | |
| | | | 6180 | +59.0 | 12.0 | +9.0 | 291 | ------- | 7 | |
| | | | 6182 | +70.0 | 23.0 | −15.0 | 145 | 4,108 | 9 | |
| Nov. 8 | 10 | 52 | 6198 | −63.0 | 236.9 | −19.0 | 533 | ------- | 16 | Do. |
| | | | 6194 | −50.0 | 249.9 | −19.5 | 48 | ------- | 2 | |
| | | | 6194 | −45.5 | 254.4 | −18.0 | 291 | ------- | 10 | |
| | | | 6192 | −30.0 | 269.9 | −9.0 | 2,327 | ------- | 125 | |
| | | | 6197 | −2.0 | 297.9 | +23.0 | 6 | ------- | 2 | |
| | | | 6191 | −1.0 | 298.9 | +11.0 | 6 | ------- | 1 | |
| | | | 6187 | +13.0 | 312.9 | +17.0 | 48 | ------- | 9 | |
| | | | 6196 | +17.0 | 316.9 | +9.5 | 48 | ------- | 8 | |
| | | | 6195 | +33.0 | 333.9 | +15.0 | 339 | ------- | 13 | |
| | | | 6177 | +54.5 | 354.4 | +15.0 | 6 | ------- | 1 | |
| | | | 6176 | +61.0 | 0.9 | −9.0 | 61 | ------- | 2 | |
| | | | 6180 | +71.0 | 10.9 | +8.0 | 267 | 3,980 | 4 | |
| Nov. 9 | 11 | 5 | 6198 | −48.0 | 238.6 | −19.0 | 388 | ------- | 10 | Do. |
| | | | 6194 | −30.0 | 256.6 | −18.0 | 242 | ------- | 8 | |
| | | | 6192 | −16.0 | 270.6 | −9.0 | 2,133 | ------- | 75 | |
| | | | 6187 | +27.0 | 313.6 | +17.0 | 36 | ------- | 3 | |
| | | | 6196 | +29.5 | 316.1 | +10.0 | 48 | ------- | 9 | |
| | | | 6195 | +47.0 | 333.6 | +15.0 | 339 | ------- | 12 | |
| | | | 6176 | +76.0 | 2.6 | −7.5 | 61 | ------- | 1 | |
| | | | 6180 | +87.0 | 13.6 | +8.0 | 97 | 3,344 | 1 | |

## POSITIONS AND AREAS OF SUN SPOTS—Continued

| Date | Eastern standard time | Mt. Wilson group No. | Heliographic: Diff. in longitude | Heliographic: Longitude | Heliographic: Latitude | Area: Spot or group | Area: Total for each day | Spot count | Observatory |
|---|---|---|---|---|---|---|---|---|---|
| *1938* | *h m* | | ° | ° | ° | | | | |
| Nov. 10 | 11 14 | 6198 | −35.0 | 238.4 | −19.0 | 388 | ------- | 38 | U. S. Naval. |
| | | 6194 | −18.0 | 255.4 | −18.5 | 206 | ------- | 4 | |
| | | 6192 | −2.5 | 279.9 | −9.0 | 2,133 | ------- | 125 | |
| | | 6197 | +26.0 | 299.4 | +20.0 | 6 | ------- | 1 | |
| | | 6187 | +40.0 | 313.4 | +17.0 | 24 | ------- | 1 | |
| | | 6196 | +45.0 | 318.4 | +10.0 | 12 | ------- | 1 | |
| | | 6195 | +61.0 | 334.4 | +15.0 | 242 | 3,011 | 9 | |
| Nov. 11 | 10 58 | 6199 | −66.0 | 194.3 | −8.0 | 24 | ------- | 3 | Mount Wilson. |
| | | 6198 | −21.0 | 239.3 | −19.0 | 291 | ------- | 25 | |
| | | 6194 | −3.0 | 257.3 | −17.0 | 218 | ------- | 20 | |
| | | 6192 | +11.0 | 271.3 | −9.0 | 2,133 | ------- | 165 | |
| | | 6195 | +72.0 | 332.3 | +15.5 | 73 | 2,739 | 8 | |
| Nov. 12 | 11 31 | 6203 | −80.0 | 166.8 | +20.0 | 48 | ------- | 2 | U. S. Naval. |
| | | 6202 | −78.0 | 168.8 | −10.0 | 315 | ------- | 4 | |
| | | 6199 | −51.5 | 195.3 | −8.0 | 16 | ------- | 6 | |
| | | 6201 | −50.5 | 196.3 | +10.5 | 73 | ------- | 8 | |
| | | 6200 | −41.0 | 205.8 | −19.0 | 170 | ------- | 14 | |
| | | 6198 | −7.0 | 239.8 | −18.0 | 242 | ------- | 30 | |
| | | 6194 | +9.5 | 256.3 | −17.0 | 194 | ------- | 2 | |
| | | 6192 | +25.0 | 271.8 | −9.0 | 1,939 | 2,997 | 110 | |
| Nov. 13 | 11 16 | 6203 | −68.0 | 165.8 | +20.0 | 61 | ------- | 9 | Mount Wilson. |
| | | 6202 | −66.0 | 167.8 | −10.0 | 315 | ------- | 10 | |
| | | 6199 | −38.0 | 195.8 | −8.0 | 12 | ------- | 1 | |
| | | 6201 | −37.0 | 196.8 | +10.5 | 145 | ------- | 28 | |
| | | 6200 | −28.0 | 205.8 | −19.0 | 194 | ------- | 25 | |
| | | 6204 | 0.0 | 233.8 | −7.0 | 48 | ------- | 7 | |
| | | 6198 | +7.0 | 240.8 | −18.0 | 194 | ------- | 22 | |
| | | 6194 | +22.0 | 255.8 | −17.0 | 194 | ------- | 6 | |
| | | 6192 | +38.0 | 271.8 | −9.0 | 1,600 | 2,763 | 105 | |
| Nov. 14 | 10 57 | 6203 | −65.0 | 155.8 | +20.5 | 97 | ------- | 6 | U. S. Naval. |
| | | 6203 | −56.0 | 164.8 | +20.5 | 206 | ------- | 4 | |
| | | 6202 | −51.0 | 169.8 | −9.5 | 330 | ------- | 8 | |
| | | 6205 | −27.0 | 193.8 | +20.0 | 73 | ------- | 7 | |
| | | 6201 | −25.0 | 195.8 | +11.0 | 121 | ------- | 11 | |
| | | 6200 | −14.0 | 206.8 | −19.5 | 170 | ------- | 11 | |
| | | 6204 | +17.0 | 237.8 | −6.0 | 48 | ------- | 6 | |
| | | 6198 | +19.5 | 240.3 | −19.0 | 170 | ------- | 11 | |
| | | 6194 | +35.0 | 255.8 | −17.0 | 218 | ------- | 3 | |
| | | 6192 | +50.0 | 270.8 | −9.0 | 1,600 | 3,042 | 45 | |
| Nov. 15 | 11 9 | 6206 | −76.0 | 131.5 | +13.0 | 12 | ------- | 2 | Do. |
| | | 6203 | −49.5 | 158.0 | +20.0 | 36 | ------- | 6 | |
| | | 6203 | −43.0 | 164.5 | +19.5 | 194 | ------- | 3 | |
| | | 6202 | −37.5 | 170.0 | −9.5 | 291 | ------- | 2 | |
| | | 6201 | −11.0 | 196.5 | +11.0 | 97 | ------- | 7 | |
| | | 6205 | −9.0 | 198.5 | +18.0 | 73 | ------- | 13 | |
| | | 6200 | +1.0 | 208.5 | −19.0 | 291 | ------- | 25 | |
| | | 6204 | +29.0 | 236.5 | −7.0 | 388 | ------- | 32 | |
| | | 6198 | +32.0 | 239.5 | −18.0 | 85 | ------- | 4 | |
| | | 6194 | +48.0 | 255.5 | −18.0 | 170 | ------- | 2 | |
| | | 6192 | +65.0 | 272.5 | −9.0 | 1,309 | 2,946 | 22 | |
| Nov. 16 | 10 54 | 6206 | −68.0 | 126.4 | +14.0 | 24 | ------- | 5 | Do. |
| | | 6207 | −35.0 | 159.4 | +6.0 | 24 | ------- | 1 | |
| | | 6203 | −33.0 | 161.4 | +20.0 | 242 | ------- | 10 | |
| | | 6202 | −25.0 | 169.4 | −10.0 | 291 | ------- | 2 | |
| | | 6201 | +2.0 | 196.4 | +10.5 | 73 | ------- | 5 | |
| | | 6205 | +3.0 | 197.4 | +19.0 | 73 | ------- | 10 | |
| | | 6200 | +14.0 | 208.4 | −19.5 | 388 | ------- | 37 | |
| | | 6204 | +43.0 | 237.4 | −6.0 | 630 | ------- | 24 | |
| | | 6198 | +44.0 | 238.4 | −19.0 | 73 | ------- | 3 | |
| | | 6194 | +61.0 | 255.4 | −18.0 | 121 | ------- | 1 | |
| | | 6192 | +79.0 | 273.4 | −10.0 | 1,309 | 3,248 | 13 | |
| Nov. 17 | 11 8 | 6206 | −55.0 | 126.1 | +15.0 | 48 | ------- | 11 | Do. |
| | | 6203 | −27.0 | 154.1 | +23.0 | 36 | ------- | 2 | |
| | | 6207 | −22.0 | 159.1 | +7.0 | 73 | ------- | 12 | |
| | | 6203 | −20.0 | 161.1 | +20.0 | 218 | ------- | 12 | |
| | | 6202 | −10.0 | 171.1 | −9.5 | 291 | ------- | 3 | |
| | | 6201 | +16.0 | 197.1 | +10.5 | 73 | ------- | 1 | |
| | | 6205 | +20.0 | 201.1 | +19.0 | 24 | ------- | 2 | |
| | | 6200 | +28.0 | 209.1 | −19.0 | 582 | ------- | 40 | |
| | | 6204 | +56.0 | 237.1 | −8.0 | 824 | ------- | 33 | |
| | | 6198 | +57.5 | 238.6 | −19.0 | 36 | ------- | 4 | |
| | | 6194 | +74.0 | 255.1 | −18.0 | 97 | 2,302 | 1 | |
| Nov. 18 | 12 0 | 6206 | −41.0 | 126.5 | +15.0 | 24 | ------- | 4 | Do. |
| | | 6203 | −12.0 | 155.5 | +23.0 | 12 | ------- | 2 | |
| | | 6207 | −6.0 | 161.5 | +7.0 | 48 | ------- | 5 | |
| | | 6203 | −4.0 | 163.5 | +19.5 | 194 | ------- | 3 | |
| | | 6202 | +2.0 | 169.5 | −10.0 | 291 | ------- | 6 | |
| | | 6201 | +29.0 | 196.5 | +10.0 | 48 | ------- | 1 | |
| | | 6205 | +34.5 | 202.0 | +18.0 | 24 | ------- | 4 | |
| | | 6200 | +41.0 | 208.5 | −19.0 | 727 | ------- | 45 | |
| | | 6204 | +70.0 | 237.5 | −8.0 | 873 | ------- | 22 | |
| | | 6198 | +79.0 | 246.5 | −19.0 | 12 | 2,253 | 1 | |



## POSITIONS AND AREAS OF SUN SPOTS—Continued

| Date | Eastern standard time | Mt. Wilson group No. | Heliographic: Diff. in longitude | Heliographic: Longitude | Heliographic: Latitude | Area: Spot or group | Area: Total for each day | Spot count | Observatory |
|---|---|---|---|---|---|---|---|---|---|
| *1938* | *h m* | | ° | ° | ° | | | | |
| Nov. 19 | 11 30 | 6206 | −25.0 | 129.6 | +17.0 | 24 | ------- | 3 | Mount Wilson. |
| | | 6203 | +1.0 | 155.6 | +20.0 | 194 | ------- | 10 | |
| | | 6207 | +7.0 | 161.6 | +6.5 | 145 | ------- | 35 | |
| | | 6208 | +13.0 | 167.6 | +25.0 | 12 | ------- | 2 | |
| | | 6202 | +16.0 | 170.6 | −10.0 | 315 | ------- | 1 | |
| | | 6201 | +41.0 | 195.6 | +10.0 | 24 | ------- | 5 | |
| | | 2605 | +45.0 | 199.6 | +18.0 | 12 | ------- | 3 | |
| | | 6200 | +55.0 | 209.6 | −19.0 | 1,600 | ------- | 100 | |
| | | 6204 | +84.0 | 238.6 | −8.0 | 582 | 2,908 | 8 | |
| Nov. 20 | 13 17 | 6211 | −56.0 | 84.4 | +1.5 | 6 | ------- | 1 | U. S. Naval. |
| | | 6207 | +21.0 | 161.4 | +6.0 | 121 | ------- | 14 | |
| | | 6203 | +24.0 | 164.4 | +19.0 | 194 | ------- | 2 | |
| | | 6202 | +30.0 | 170.4 | −10.5 | 291 | ------- | 2 | |
| | | 6201 | +57.0 | 197.4 | +11.0 | 12 | ------- | 1 | |
| | | 6200 | +66.0 | 206.4 | −19.0 | 1,600 | 2,224 | 35 | |
| Nov. 21 | 11 25 | 6210 | +9.5 | 137.8 | −25.0 | 36 | ------- | 3 | Do. |
| | | 6209 | +15.0 | 143.3 | +21.0 | 24 | ------- | 4 | |
| | | 6207 | +34.0 | 162.3 | +6.0 | 194 | ------- | 18 | |
| | | 6203 | +37.0 | 165.3 | +19.5 | 170 | ------- | 10 | |
| | | 6208 | +39.0 | 167.3 | +25.0 | 48 | ------- | 6 | |
| | | 6202 | +43.0 | 171.3 | −10.5 | 291 | ------- | 8 | |
| | | 6200 | +78.0 | 201.3 | −20.0 | 1,212 | 1,975 | 40 | |
| Nov 22 | 11 18 | 6212 | −48.0 | 67.1 | +17.0 | 12 | ------- | 6 | Do. |
| | | 6210 | +25.0 | 140.1 | −23.0 | 12 | ------- | 4 | |
| | | 6209 | +27.0 | 142.1 | +22.0 | 24 | ------- | 6 | |
| | | 6207 | +46.0 | 161.1 | +6.0 | 194 | ------- | 22 | |
| | | 6203 | +49.0 | 164.1 | +19.0 | 97 | ------- | 11 | |
| | | 6202 | +55.0 | 170.1 | −10.0 | 242 | ------- | 2 | |
| | | 6208 | +55.0 | 170.1 | +25.0 | 36 | 617 | 4 | |
| Nov 23 | 11 14 | 6213 | −70.0 | 32.0 | +15.0 | 194 | ------- | 18 | Do. |
| | | 6210 | +40.0 | 142.0 | −23.5 | 6 | ------- | 1 | |
| | | 6209 | +41.0 | 143.0 | +21.0 | 12 | ------- | 3 | |
| | | 6207 | +60.0 | 162.0 | +6.0 | 194 | ------- | 16 | |
| | | 6203 | +63.0 | 165.0 | +19.5 | 73 | ------- | 5 | |
| | | 6202 | +68.0 | 170.0 | −10.0 | 242 | ------- | 1 | |
| | | 6208 | +68.0 | 170.0 | +25.0 | 97 | 818 | 6 | |
| Nov 24 | 10 57 | 6214 | −57.5 | 31.5 | −18.0 | 24 | ------- | 2 | Mount Wilson. |
| | | 6213 | −54.5 | 34.5 | +15.0 | 970 | ------- | 45 | |
| | | 6212 | −20.0 | 69.0 | +18.0 | 61 | ------- | 9 | |
| | | 6215 | −3.0 | 86.0 | +14.0 | 36 | ------- | 7 | |
| | | (*) | +11.5 | 100.5 | −14.0 | 12 | ------- | 3 | |
| | | (*) | +12.0 | 101.0 | −24.0 | 12 | ------- | 5 | |
| | | 6207 | +73.0 | 162.0 | +7.0 | 121 | ------- | 15 | |
| | | 6208 | +0.0 | 169.0 | +24.0 | 97 | ------- | 6 | |
| | | 6202 | +82.0 | 171.0 | −10.0 | 194 | ------- | 3 | |
| | | 6203 | +85.0 | 174.0 | +19.0 | 48 | 1,575 | 3 | |
| Nov 25 | 11 1 | 6214 | −43.0 | 32.8 | −18.0 | 36 | ------- | 10 | U. S. Naval. |
| | | 6213 | −41.0 | 34.8 | +14.0 | 1,164 | ------- | 75 | |
| | | 6212 | −7.0 | 68.8 | +17.5 | 170 | ------- | 28 | |
| | | 6217 | +3.0 | 78.8 | +18.0 | 6 | ------- | 8 | |
| | | 6215 | +10.0 | 85.8 | +13.0 | 48 | ------- | 2 | |
| | | 6216 | +27.0 | 102.8 | −18.0 | 24 | ------- | 6 | |
| | | 6209 | +65.0 | 140.8 | +24.0 | 24 | ------- | 2 | |
| | | 6207 | +85.0 | 160.8 | +7.0 | 145 | 1,617 | 5 | |
| Nov 26 | 10 51 | 6214 | −30.0 | 32.7 | −18.0 | 73 | ------- | 11 | Do. |
| | | 6213 | −27.0 | 35.7 | +14.0 | 1,697 | ------- | 78 | |
| | | 6212 | +6.0 | 68.7 | +17.0 | 97 | ------- | 24 | |
| | | 6217 | +17.0 | 79.7 | +17.5 | 6 | ------- | 1 | |
| | | 6216 | +41.0 | 103.7 | −17.0 | 36 | 1,909 | 4 | |
| Nov 27 | 11 43 | 6218 | −70.0 | 339.0 | −11.0 | 24 | ------- | 1 | Do. |
| | | 6214 | −16.0 | 33.0 | −18.0 | 194 | ------- | 32 | |
| | | 6213 | −14.0 | 35.0 | +14.0 | 1,745 | ------- | 95 | |
| | | 6212 | +17.0 | 66.0 | +17.0 | 97 | ------- | 9 | |
| | | 6212 | +23.5 | 72.5 | +17.0 | 6 | ------- | 1 | |
| | | 6216 | +51.0 | 100.0 | −17.0 | 12 | 2,078 | 2 | |
| Nov 28 | 11 0 | 6219 | −77.0 | 319.2 | +12.0 | 48 | ------- | 2 | Do. |
| | | 6218 | −58.0 | 338.2 | −11.5 | 24 | ------- | 4 | |
| | | 6214 | −3.0 | 33.2 | −18.0 | 339 | ------- | 58 | |
| | | 6213 | −1.0 | 35.2 | +14.0 | 2,133 | ------- | 120 | |
| | | 6212 | +29.0 | 65.2 | +16.0 | 61 | ------- | 6 | |
| | | 6212 | +35.0 | 71.2 | +16.0 | 6 | 2,611 | 1 | |
| Nov 29 | 10 51 | 6219 | −62.0 | 321.1 | +11.5 | 61 | ------- | 2 | Do. |
| | | 6214 | +10.0 | 33.1 | −18.0 | 485 | ------- | 34 | |
| | | 6213 | +12.0 | 35.1 | +14.0 | 1,891 | ------- | 70 | |
| | | 6212 | +41.5 | 64.6 | +16.0 | 24 | 2,461 | 5 | |
| Nov 30 | 10 52 | 6219 | −49.0 | 320.9 | +11.0 | 61 | ------- | 1 | Do. |
| | | 6214 | +24.0 | 33.9 | −18.0 | 485 | ------- | 25 | |
| | | 6213 | +25.0 | 34.9 | +14.0 | 1,697 | ------- | 42 | |
| | | 6212 | +54.0 | 63.9 | +16.0 | 12 | 2,255 | 2 | |

Mean daily area for 30 days =2,382.
* = not numbered.