

SUDDEN IONOSPHERIC DISTURBANCES

121
Jul 02

JULY 2002

| Day | Start (UT) | Max (UT) | End (UT) | Imp | Wide Spread Index | Number of Station Reports by Type | | | | | Flare (UT) | X-ray Class | NOAA Region |
|-----|------------|----------|----------|-----|-------------------|-----------------------------------|-----|-----|--------|-----|------------|-------------|-------------|
| | | | | | | SWF | SEA | SPA | LF-SPA | SES | | | |
| 01 | 0648 | 0707 | 0959 | 2 | 1 | | 1 | | | | 0904 | C1.6 | 10017 |
| 02 | 0932 | 0935 | 0951 | 1 | 1 | | 1 | | | | 0938 | C1.1 | |
| 02 | 1408 | 1421 | 1442 | 1+ | 3 | | | | | 2 | 1408 | C2.3 | 10019 |
| 02 | 1955 | 2001 | 2020 | 2 | 3 | | | | | 3 | 1946 | C5.2 | 10017 |
| 02 | 2020 | 2030 | 2122 | 2+ | 3 | | | | | 5 | 2019 | M1.5 | 10017 |
| 02 | 2248 | 2251 | 2312 | 1+ | 1 | | | | | 1 | 2235 | C4.9 | |
| 03 | 0759 | 0809 | 0848 | 2- | 5 | | 1 | | | 3 | 0757 | C3.4 | 10019 |
| 03 | 1148 | 1155 | 1224 | 3- | 5 | 1 | 1 | 1 | | 4 | 1143 | C7.3 | 10019 |
| 03 | 1204 | 1230 | 1314 | 1 | 1 | | 1 | | | | No flare | | |
| 03 | 1805 | 1809 | 1834 | 1+ | 5 | | | | | 6 | 1803 | C3.0 | 10017 |
| 03 | 1942 | 1945 | 1958 | 1- | 5 | | | | | 2 | 1941 | M1.1 | |
| 03 | 2003 | 2010 | 2051 | 2 | 5 | | | | | 5 | 2000 | M5.3 | |
| 03 | 2320 | 2327 | 2354 | 2+ | 5 | | | | | 2 | 2318 | C7.9 | 10017 |
| 04 | 0127 | 0131 | 0151 | 1 | 3 | | | | | 2 | 0124 | C4.7 | 10017 |
| 04 | 0612 | 0630 | 0708 | 2- | 3 | | 1 | | | 2 | 0614 | C2.8 | 10017 |
| 04 | 0730 | 0737 | 0755 | 3 | 5 | 1 | | 1 | | 3 | 0727 | M1.1 | 10017 |
| 04 | 1045 | 1055 | 1134 | 2+ | 1 | | | | | 1 | 1045 | C2.6 | 10017 |
| 04 | 1221 | 1239 | 1326 | 2+ | 3 | | | | | 2 | 1222 | C2.3 | |
| 04 | 1328 | 1336 | 1400 | 1+ | 5 | | | | | 4 | 1326 | C3.0 | 10017 |
| 04 | 1453 | 1457 | 1510 | 3- | 5 | 1 | | 1 | | 7 | 1450 | C7.1 | 10017 |
| 04 | 1510 | 1513 | 1545 | 2 | 1 | | | | | 1 | No flare | | |
| 04 | 1612 | 1613 | 1622 | 1- | 1 | | | | | 1 | 1607 | C2.2 | 10017 |
| 04 | 1622 | 1629 | 1705 | 2 | 3 | | | | | 4 | 1621 | | 10019 |
| 04 | 1742 | 1744 | 1810 | 1+ | 3 | | | | | 2 | 1741 | C2.4 | 10019 |
| 04 | 1843 | 1849 | 1917 | 1+ | 3 | | | | | 5 | 1834 | C5.3 | 10017 |
| 05 | 0736 | 0752 | 0818 | 1+ | 3 | | 1 | | | 1 | 0731 | C2.6 | 10017 |
| 05 | 0801 | 0806 | 0850 | 3 | 5 | 1 | 1 | 1 | | 4 | 0756 | C7.8 | |
| 05 | 1314 | 1323 | 1404 | 3 | 5 | 1 | 2 | 1 | | 11 | 1310 | M3.2 | 10017 |
| 05 | 1551 | 1600 | 1616 | 2 | 5 | 1 | 1 | 1 | | 3 | 1550 | C6.3 | 10019 |
| 05 | 1811 | 1816 | 1900 | 2+ | 1 | | | | | 1 | 1811 | | 10021 |
| 05 | 2030 | 2035 | 2050D | 1 | 1 | | | | | 1 | 2025 | C2.0 | 10021 |
| 05 | 2050 | 2052 | 2145 | 2+ | 1 | | | | | 1 | 2047 | C3.6 | 10021 |
| 06 | 0329 | 0333 | 0400 | 1+ | 1 | | | | | 1 | 0328 | M1.8 | |
| 06 | 0932 | 0939 | 1013 | 2+ | 5 | 1 | 2 | 1 | | 5 | 0927 | C6.0 | 10019 |
| 06 | 1547 | 1557 | 1626 | 2- | 5 | | 1 | | | 4 | No flare | | |
| 07 | 0546 | 0555 | 0638 | 1+ | 3 | | 1 | | | 2 | 0541 | C1.2 | |
| 07 | 1115 | 1136 | 1409 | 3 | 5 | 1 | | 1 | | 6 | 1115 | M1.0 | |
| 08 | 0638 | 0658U | 0716 | 1 | 1 | | 1 | | | | No flare | | |
| 08 | 0740 | 0810 | 0848 | 1 | 1 | | 1 | | | | No flare | | |
| 08 | 0915 | 0925 | 1018 | 3 | 5 | 1 | 2 | 1 | | 5 | 0910 | M1.6 | |
| 08 | 1634 | 1639 | 1658 | 1 | 1 | | | | | 1 | No flare | | |
| 08 | 1958 | 2015 | 2145 | 3 | 1 | | | | | 1 | 2017 | C1.2 | |
| 08 | 2312 | 2319 | 2355 | 2- | 3 | | | | | 2 | 2309 | M2.3 | |
| 09 | 0411 | 0417 | 0528 | 1 | 1 | | 1 | | | | 0359 | C8.6 | |
| 09 | 0713 | 0719 | 0752 | 2 | 5 | 1 | 2 | 1 | | 2 | 0711 | C2.5 | |
| 09 | 0859 | 0908 | 1024 | 3 | 5 | 1 | 2 | 1 | | 5 | 0855 | M1.0 | |
| 09 | 1427 | 1437 | 1502 | 2 | 3 | | | | | 2 | 1428 | C1.1 | |
| 09 | 1514 | 1518 | 1545 | 1+ | 1 | | | | | 1 | 1511 | C1.2 | |
| 10 | 1321 | 1334 | 1408 | 2 | 3 | | | | | 3 | 1323 | C2.7 | 10025 |
| 11 | 1034 | 1039 | 1056 | 1+ | 5 | | | | | 2 | 1032 | C2.1 | 10030 |
| 11 | 1112 | 1123 | 1150 | 2 | 3 | | | | | 2 | 1107 | C4.0 | |
| 11 | 1204 | 1208 | 1231 | 1 | 5 | | | | | 3 | 1204 | C2.5 | |
| 11 | 1234 | 1235 | 1257 | 1 | 1 | | | | | 1 | 1236 | C1.7 | 10030 |
| 11 | 1304 | 1323 | 1348 | 2 | 3 | | | | | 2 | No flare | | |
| 11 | 1350 | 1352 | 1413 | 1 | 1 | | | | | 1 | No flare | | |
| 11 | 1417 | 1421 | 1442 | 2 | 5 | 1 | | 1 | | 9 | 1415 | M1.0 | 10030 |
| 11 | 1446 | 1453 | 1524 | 3 | 5 | 1 | | 1 | | 11 | 1444 | M5.8 | 10030 |
| 11 | 1456 | 1506 | 1545 | 2+ | 1 | | | | | 1 | No flare | | |

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|-----|------------|----------|----------|-----|-------------------|-----------------------------------|-----|-----|--------|-----|------------|-------------|-------------|-------|
| | | | | | | SWF | SEA | SPA | LF-SPA | SES | | | | |
| 12 | 0000 | 0028 | 0115 | 2+ | 1 | | | | | | 1 | 0021 | C1.1 | |
| 12 | 0925 | 0930 | 1000 | 1- | 1 | | | | | | 1 | No flare | | |
| 12 | 1331 | 1344 | 1414 | 2 | 1 | | | | | | 1 | 1327 | C1.8 | 10030 |
| 12 | 1333 | 1412 | 1507 | 1 | 1 | | | 1 | | | | No flare | | |
| 12 | 1632 | 1704 | 1814 | 1 | 1 | | | 1 | | | | No flare | | |
| 12 | 2358 | 2407 | 2447 | 2+ | 1 | | | | | | 1 | 2354 | M1.1 | 10030 |
| 13 | 0732 | 0748 | 0806 | 1 | 1 | | | 1 | | | | 0750 | C1.6 | 10030 |
| 14 | 0706 | 0726 | 0800 | 2 | 1 | | | 1 | | | | 0712 | B9.2 | |
| 15 | 0506 | 0509 | 0541 | 1 | 3 | | | | | | 3 | 0503 | C3.8 | 10030 |
| 15 | 0934 | 0949 | 1025 | 1 | 1 | | | 1 | | | | No flare | | |
| 15 | 1141 | 1153 | 1234 | 3 | 5 | 1 | 2 | 1 | | | 7 | 1139 | C9.1 | 10030 |
| 15 | 1334 | 1355 | 1438 | 2- | 5 | | | 1 | | | 1 | No flare | | |
| 15 | 1403 | 1405 | 1422 | 1- | 1 | | | | | | 1 | 1400 | C3.6 | 10030 |
| 15 | 1641 | 1650 | 1725 | 1 | 1 | | | 1 | | | | No flare | | |
| 15 | 1951 | 2006 | 2123 | 2+ | 5 | | | | | | 6 | 1959 | X3.0 | 10030 |
| 15 | 2008 | 2026 | 2130 | 2+ | 1 | | | | | | 1 | 2103 | M1.8 | 10030 |
| 16 | 0634 | 0648 | 0731 | 2+ | 5 | | | | | | 3 | 0637 | C6.5 | 10030 |
| 16 | 1140 | 1145 | 1220 | 2 | 5 | | | | 1 | | 3 | 1138 | C3.5 | 10036 |
| 16 | 1333 | 1342 | 1355 | 1 | 3 | | | | | | 4 | 1331 | C8.5 | 10030 |
| 16 | 1359 | 1411 | 1447 | 3 | 5 | 1 | | 1 | | | 3 | 1331 | C8.5 | 10030 |
| 16 | 2130 | 2139 | 2206 | 2- | 3 | | | | | | 2 | 2122 | C2.6 | 10030 |
| 17 | 0328 | 0330 | 0400 | 1+ | 1 | | | | | | 1 | * | | |
| 17 | 0548 | 0550 | 0607 | 1- | 3 | | | | | | 3 | 0545 | C4.0 | 10030 |
| 17 | 0648 | 0649 | 0656 | 1- | 1 | | | | | | 1 | 0650 | | 10036 |
| 17 | 0700 | 0707 | 0740 | 3 | 5 | 2 | 1 | 1 | | | 4 | 0658 | M8.5 | 10030 |
| 17 | 1947 | 1952 | 2017 | 1+ | 5 | | | | | | 6 | 1943 | C3.4 | |
| 18 | 0331 | 0335 | 0416 | 1+ | 3 | | | | | | 2 | 0322 | M2.2 | 10030 |
| 18 | 0552 | 0559 | 0620 | 1 | 1 | | | 1 | | | | * | | |
| 18 | 0651 | 0654 | 0711 | 1 | 1 | | | | | | 1 | 0649 | C1.7 | 10030 |
| 18 | 0741 | 0747 | 0822 | 3 | 5 | 1 | 2 | 1 | | | 6 | 0724 | X1.8 | 10030 |
| 18 | 1153 | 1157 | 1208D | 1- | 1 | | | | | | 1 | 1151 | C2.7 | 10037 |
| 18 | 1349 | 1357 | 1434 | 2- | 3 | | | | | | 3 | 1348 | C5.4 | |
| 18 | 1745 | 1748 | 1810 | 1 | 3 | | | | | | 3 | 1742 | C1.7 | 10030 |
| 18 | 1952 | 1956 | 2016 | 1 | 1 | | | | | | 1 | 1952 | C2.1 | |
| 18 | 2014 | 2019 | 2049 | 2- | 3 | | | | | | 3 | 2016 | C3.3 | 10036 |
| 18 | 2035 | 2037 | 2115 | 2 | 1 | | | | | | 1 | No flare | | |
| 18 | 2202 | 2207 | 2245 | 2 | 1 | | | | | | 1 | * | | |
| 18 | 2311 | 2320 | 2406 | 2+ | 1 | | | | | | 1 | 2308 | C8.2 | |
| 19 | 1027 | 1037U | 1111 | 1 | 1 | | | 1 | | | | No flare | | |
| 19 | 1459 | 1510 | 1557 | 1 | 1 | | | 1 | | | | No flare | | |
| 19 | 1842 | 1848 | 1930 | 2+ | 1 | | | | | | 1 | 1846 | C3.9 | 10030 |
| 19 | 1905 | 1908 | 1925 | 1 | 1 | | | | | | 1 | 1907 | | 10030 |
| 19 | 1933 | 1943 | 2030 | 2+ | 1 | | | | | | 1 | 1934 | | 10030 |
| 20 | 0945 | 0958 | 1124 | 2 | 1 | | | 1 | | | | No flare | | |
| 20 | 1240 | 1245 | 1306 | 3 | 5 | 1 | 2 | 1 | | | 10 | 1237 | C9.6 | 10030 |
| 20 | 2014 | 2028 | 2134 | 2+ | 5 | | | | | | 4 | No flare | | |
| 20 | 2105 | 2112 | 2207 | 3- | 5 | | | | | | 3 | 2104 | X3.3 | |
| 21 | 0310 | 0311 | 0315 | 1- | 1 | | | | | | 1 | 0307 | C7.9 | |
| 21 | 0607 | 0615 | 0708 | 2 | 5 | | | 1 | | | 3 | 0605 | C6.7 | |
| 21 | 0736 | 0749 | 0820 | 3- | 5 | 1 | 2 | 1 | | | 4 | 0735 | C6.7 | |
| 21 | 1416 | 1421 | 1447 | 1+ | 5 | | | | | | 6 | 1414 | C3.4 | |
| 22 | 0721 | 0732 | 0809 | 2+ | 1 | 1 | 1 | 1 | | | | No flare | | |
| 22 | 0933 | 0943 | 0958 | 1 | 1 | | | 1 | | | | 0927 | C2.3 | 10036 |
| 22 | 1153 | 1201 | 1300 | 2 | 5 | | | 2 | 1 | | 3 | 1151 | C2.7 | |
| 22 | 1324 | 1404 | 1454 | 1 | 1 | | | 1 | | | | No flare | | |
| 22 | 1549 | 1557U | 1629 | 1 | 1 | | | 1 | | | | No flare | | |

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| | | | | | | SWF | SEA | SPA | LF-SPA | SES | | | | |
| 23 | 0022 | 0029 | 0119 | 2- | 3 | | | | | | 2 | 0018 | X4.8 | 10039 |
| 23 | 0618 | 0631 | 0819 | 1 | 1 | | 1 | | | | | 0620 | | 10036 |
| 23 | 0838 | 0848 | 0900 | 1 | 1 | | 1 | | | | | 0840 | C4.0 | 10035 |
| 23 | 0904 | 0912 | 0955 | 1 | 1 | | 1 | | | | | 0840 | C4.0 | 10035 |
| 23 | 1002 | 1014U | 1029 | 1 | 1 | | 1 | | | | | No flare | | |
| 23 | 1057 | 1107 | 1146 | 2- | 5 | | 2 | 1 | | 1 | | 1050 | C2.8 | 10036 |
| 23 | 1219 | 1226 | 1320 | 1+ | 5 | | 2 | 1 | | 4 | | 1218 | C2.9 | 10036 |
| 23 | 1556 | 1605U | 1627 | 1 | 1 | | 1 | | | | | No flare | | |
| 23 | 1719 | 1732 | 1749 | 1 | 1 | | 1 | | | | | No flare | | |
| 23 | 2035 | 2045 | 2127 | 2+ | 3 | | | | | 2 | | 2034 | C3.0 | 10036 |
| 24 | 0320 | 0322 | 0330 | 1- | 1 | | | | | 1 | | 0317 | C4.5 | 10039 |
| 24 | 1244 | 1251 | 1348 | 2+ | 5 | | 2 | 1 | | 4 | | 1231 | C6.1 | 10039 |
| 24 | 1526 | 1537 | 1627 | 2 | 5 | 1 | 1 | 1 | | 7 | | 1524 | M1.2 | 10039 |
| 24 | 1810 | 1812 | 1837 | 1+ | 3 | | | | | 2 | | 1811 | C3.2 | 10039 |
| 24 | 1911 | 1912 | 1931 | 1 | 1 | | | | | 1 | | 1913 | C2.3 | 10039 |
| 25 | 0903 | 0920 | 1007 | 1 | 3 | | 1 | | | 1 | | 0914 | C2.9 | 10039 |
| 25 | 1420 | 1427 | 1503 | 2- | 3 | | | | | 5 | | 1419 | C2.7 | 10036 |
| 25 | 1551 | 1557 | 1622 | 1+ | 3 | | | | | 4 | | 1551 | C2.6 | 10036 |
| 25 | 2106 | 2113 | 2138 | 1+ | 1 | | | | | 1 | | 2107 | C2.8 | 10044 |
| 25 | 2156 | 2202 | 2230 | 2 | 1 | | | | | 1 | | 2155 | C3.1 | 10044 |
| 25 | 2240 | 2252 | 2335 | 2+ | 1 | | | | | 1 | | 2254 | C6.7 | 10044 |
| 25 | 2300 | 2309 | 2400 | 2+ | 1 | | | | | 1 | | 2254 | C6.7 | 10044 |
| 26 | 0006 | 0013 | 0058 | 2+ | 1 | | | | | 1 | | 0004 | M4.9 | 10044 |
| 26 | 0639 | 0643 | 0723 | 2 | 5 | 1 | 1 | 1 | | 3 | | 0628 | M1.1 | 10044 |
| 26 | 0650 | 0659 | 0736 | 1+ | 3 | | 1 | | | 1 | | 0657 | | 10039 |
| 26 | 0801 | 0813 | 0813 | 1+ | 3 | | 1 | | | 1 | | 0804 | M1.3 | 10044 |
| 26 | 0807 | 0834 | 1000 | 3 | 5 | 1 | 2 | 1 | | 1 | | 0804 | M1.3 | 10044 |
| 26 | 0918 | 0923 | 0955 | 1 | 3 | | | | | 2 | | 0920 | | 10044 |
| 26 | 1310 | 1316 | 1333D | 1 | 1 | | | | | 1 | | 1255 | C2.7 | 10044 |
| 26 | 1336 | 1340 | 1410 | 2- | 3 | | | | | 2 | | 1336 | C3.0 | 10044 |
| 26 | 1528 | 1531 | 1601 | 1+ | 3 | | | | | 4 | | 1528 | C4.2 | 10044 |
| 26 | 1614 | 1617 | 1631 | 1- | 3 | | | | | 3 | | 1610 | C3.8 | 10044 |
| 26 | 1627 | 1628 | 1700 | 2 | 1 | | | | | 1 | | No flare | | |
| 26 | 1810 | 1828 | 1858 | 2 | 5 | | | | | 6 | | 1803 | C9.5 | 10044 |
| 26 | 1858 | 1903 | 1953 | 2 | 5 | | | | | 6 | | 1857 | M1.0 | 10044 |
| 26 | 2046 | 2103 | 2153 | 2 | 5 | | | | | 6 | | 2051 | M8.7 | 10044 |
| 26 | 2115 | 2200 | 2330 | 3+ | 1 | | | | | 1 | | 2051 | M8.7 | 10044 |
| 26 | 2207 | 2215 | 2309 | 2 | 3 | | | | | 4 | | 2203 | M5.3 | |
| 27 | 1819 | 1826 | 1910 | 2 | 5 | | | | | 6 | | 1818 | C5.5 | |
| 28 | 0019 | 0040 | 0124 | 2+ | 1 | | | | | 1 | | 0018 | M2.3 | 10039 |
| 28 | 0554 | 0600 | 0635 | 1+ | 3 | | 1 | | | 2 | | 0552 | C3.6 | 10044 |
| 28 | 0640 | 0642 | 0715 | 2 | 1 | | | | | 1 | | 0635 | C2.5 | 10039 |
| 28 | 0842 | 0852 | 0904 | 2- | 5 | | 2 | 1 | | 2 | | 0838 | C3.6 | 10044 |
| 28 | 1102 | 1108 | 1203 | 3 | 5 | 1 | 2 | 1 | | 5 | | 1101 | C7.6 | |
| 28 | 1454 | 1459U | 1511U | 1+ | 1 | | | | | 1 | | 1455 | C2.3 | 10039 |
| 28 | 1548 | 1555 | 1628 | 2- | 5 | | | | | 4 | | 1541 | C2.9 | |
| 28 | 1629 | 1636 | 1725 | 1 | 1 | | 1 | | | * | | * | | |
| 28 | 1658 | 1705 | 1733 | 1+ | 5 | | | | | 4 | | 1659 | C4.0 | |
| 28 | 1750 | 1800 | 1845D | 2+ | 1 | | | | | 1 | | * | | |
| 28 | 1845 | 1854 | 1934 | 2 | 5 | | | | | 5 | | 1849 | C7.1 | |
| 28 | 2004 | 2011 | 2036 | 2- | 5 | | | | | 4 | | 2002 | C6.4 | |
| 28 | 2040 | 2046 | 2116 | 2- | 5 | | | | | 4 | | 2037 | C5.1 | 10043 |
| 28 | 2301 | 2311 | 0001 | 2 | 5 | | | | | 3 | | 2258 | M2.2 | |
| 29 | 0022 | 0025 | 0042 | 1 | 1 | | | | | 1 | | 0019 | M1.4 | |
| 29 | 0236 | 0240 | 0310 | 2- | 3 | | | | | 2 | | 0229 | M4.8 | |
| 29 | 1028 | 1051 | 1303 | 3 | 5 | 1 | 2 | 1 | | 6 | | 1027 | M4.7 | |
| 29 | 1513 | 1543 | 1559 | 1 | 1 | | 1 | | | | | 1521 | | 10050 |
| 29 | 1626 | 1628 | 1642 | 1 | 1 | | 1 | | | | | 1626 | | 10039 |
| 29 | 1754 | 1758 | 1827 | 2 | 1 | | | | | 1 | | 1753 | C3.8 | |
| 29 | 1935 | 1941 | 2032 | 2 | 5 | | | | | 4 | | 1934 | C8.6 | 10050 |
| 29 | 2030 | 2035 | 2056 | 1+ | 1 | | | | | 1 | | 2031 | C3.1 | 10038 |

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|-----|---------------|-------------|-------------|-----|-------------------------|-----------------------------------|-----|-----|------------|-----|---------------|----------------|----------------|-------|
| | | | | | | SWF | SEA | SPA | LF- SPA | SES | | | | |
| 29 | 2103 | 2112 | 2151 | 2+ | 5 | | | | | | 3 | 2101 | C6.5 | 10050 |
| 29 | 2240 | 2249 | 2326 | 2+ | 1 | | | | | | 1 | 2238 | C4.2 | |
| 30 | 0715 | 0725 | 0819 | 2 | 5 | | | | | | | | | |
| 30 | 1439 | 1444U | 1511 | 1 | 1 | | 1 | | 1 | | 1 | 0712 | C3.4 | 10039 |
| | | | | | | | | | | | | * | | |
| 31 | 0142 | 0155 | 0217 | 2 | 1 | | | | | | 1 | 0139 | M1.2 | 10039 |
| 31 | 0850 | 0854 | 0905 | 1- | 1 | | | | | | 1 | 0849 | C2.4 | |
| 31 | 0952 | 0956 | 1050 | 3 | 5 | 1 | 2 | 1 | | | 3 | 0950 | C9.6 | |
| 31 | 1449 | 1450 | 1500 | 1- | 1 | | | | | | 1 | 1449 | C2.3 | |
| 31 | 1522 | 1525 | 1545 | 1 | 1 | | | | | | 1 | 1523 | C2.6 | 10050 |
| 31 | 1959 | 2000 | 2018D | 1 | 1 | | | | | | 1 | 1958 | C2.8 | 10048 |
| 31 | 2019 | 2024 | 2042 | 1 | 5 | | | | | | 2 | 2018 | C3.3 | |
| 31 | 2252 | 2259 | 2313 | 1 | 1 | | | | | | 1 | 2250 | C3.0 | |

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OBSERVATORIES REPORTING FOR JULY 2002

| | | | |
|---------------------------------|-----|------------------------------|---------------|
| Alberta, Canada | SES | Milan, Italy | SES |
| Bedford, Massachusetts, USA | SES | Nerja, Spain | SES |
| Bern, Switzerland | SES | Panska Ves, Czech Republic | SES, SEA, SWF |
| Brookline, Massachusetts, USA | SES | Sofia, Bulgaria | SES |
| Edenvale, Rep of S. Africa | SES | Sussex, United Kingdom | SES |
| Houston, Texas, USA | SES | Torrington, Connecticut, USA | SES |
| Isola del Gran Sasso, Italy | SES | Upice, Czech Republic | SEA |
| Marlborough, Massachusetts, USA | SES | Villiersdorp, South Africa | SES |

Observations are not necessarily continuous.