

Location: W085 16, N45 04

CENTRAL LAKE, MICHIGAN
Rise and Set for the Moon for 2019

Astronomical Applications Dept.
U. S. Naval Observatory
Washington, DC 20392-5420

Eastern Standard Time

| Day | Jan. | | Feb. | | Mar. | | Apr. | | May | | June | | July | | Aug. | | Sept. | | Oct. | | Nov. | | Dec. | |
|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| | Rise | Set | Rise | Set | Rise | Set | Rise | Set | Rise | Set | Rise | Set | Rise | Set | Rise | Set | Rise | Set | Rise | Set | Rise | Set | Rise | Set |
| | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m |
| 01 | 0354 | 1425 | 0550 | 1502 | 0438 | 1348 | 0509 | 1529 | 0429 | 1622 | 0411 | 1827 | 0355 | 1933 | 0548 | 2054 | 0838 | 2059 | 1002 | 2026 | 1214 | 2110 | 1224 | 2153 |
| 02 | 0459 | 1458 | 0640 | 1553 | 0523 | 1442 | 0537 | 1630 | 0453 | 1725 | 0442 | 1936 | 0446 | 2037 | 0707 | 2131 | 0955 | 2127 | 1116 | 2102 | 1306 | 2207 | 1257 | 2256 |
| 03 | 0601 | 1535 | 0724 | 1648 | 0602 | 1539 | 0602 | 1731 | 0517 | 1829 | 0520 | 2045 | 0548 | 2133 | 0826 | 2203 | 1110 | 2157 | 1225 | 2143 | 1349 | 2307 | 1324 | 2358 |
| 04 | 0701 | 1618 | 0801 | 1746 | 0636 | 1638 | 0626 | 1833 | 0542 | 1936 | 0605 | 2150 | 0657 | 2220 | 0944 | 2232 | 1223 | 2230 | 1328 | 2230 | 1425 | | 1349 | |
| 05 | 0755 | 1705 | 0834 | 1845 | 0706 | 1738 | 0649 | 1937 | 0611 | 2043 | 0700 | 2249 | 0812 | 2259 | 1100 | 2259 | 1332 | 2307 | 1423 | 2322 | 1455 | 0008 | 1411 | 0059 |
| 06 | 0843 | 1758 | 0903 | 1945 | 0733 | 1839 | 0714 | 2041 | 0645 | 2151 | 0804 | 2340 | 0929 | 2332 | 1213 | 2328 | 1437 | 2349 | 1510 | | 1521 | 0109 | 1433 | 0200 |
| 07 | 0924 | 1855 | 0929 | 2046 | 0758 | 1940 | 0740 | 2147 | 0725 | 2258 | 0914 | | 1045 | | 1325 | 2358 | 1535 | | 1550 | 0019 | 1545 | 0211 | 1454 | 0301 |
| 08 | 1000 | 1953 | 0953 | 2147 | 0821 | 2042 | 0810 | 2253 | 0813 | 2359 | 1028 | 0022 | 1200 | 0002 | 1434 | | 1627 | 0037 | 1623 | 0118 | 1607 | 0312 | 1518 | 0404 |
| 09 | 1032 | 2053 | 1017 | 2248 | 0845 | 2145 | 0845 | | 0909 | | 1142 | 0058 | 1312 | 0029 | 1541 | 0031 | 1711 | 0130 | 1652 | 0219 | 1629 | 0413 | 1544 | 0508 |
| 10 | 1059 | 2153 | 1041 | 2351 | 0910 | 2248 | 0927 | 0000 | 1014 | 0054 | 1256 | 0129 | 1423 | 0056 | 1643 | 0108 | 1748 | 0227 | 1717 | 0320 | 1651 | 0515 | 1614 | 0614 |
| 11 | 1125 | 2254 | 1107 | | 0937 | 2354 | 1017 | 0103 | 1124 | 0141 | 1409 | 0157 | 1533 | 0124 | 1739 | 0152 | 1820 | 0326 | 1740 | 0421 | 1716 | 0618 | 1651 | 0722 |
| 12 | 1149 | 2355 | 1136 | 0056 | 1009 | | 1116 | 0202 | 1238 | 0220 | 1521 | 0224 | 1642 | 0155 | 1828 | 0241 | 1847 | 0427 | 1802 | 0522 | 1743 | 0723 | 1736 | 0828 |
| 13 | 1213 | | 1209 | 0202 | 1046 | 0100 | 1223 | 0254 | 1352 | 0254 | 1633 | 0252 | 1747 | 0229 | 1910 | 0335 | 1912 | 0528 | 1824 | 0623 | 1816 | 0830 | 1830 | 0931 |
| 14 | 1238 | 0058 | 1250 | 0310 | 1130 | 0206 | 1336 | 0339 | 1507 | 0325 | 1743 | 0321 | 1848 | 0309 | 1946 | 0433 | 1935 | 0629 | 1847 | 0726 | 1855 | 0936 | 1934 | 1027 |
| 15 | 1305 | 0203 | 1340 | 0417 | 1224 | 0309 | 1451 | 0418 | 1621 | 0353 | 1852 | 0353 | 1943 | 0354 | 2016 | 0534 | 1957 | 0730 | 1913 | 0829 | 1942 | 1040 | 2044 | 1115 |
| 16 | 1337 | 0310 | 1440 | 0521 | 1328 | 0407 | 1608 | 0452 | 1734 | 0420 | 1957 | 0430 | 2030 | 0446 | 2043 | 0635 | 2019 | 0831 | 1942 | 0933 | 2039 | 1139 | 2157 | 1155 |
| 17 | 1415 | 0420 | 1550 | 0619 | 1439 | 0458 | 1724 | 0522 | 1847 | 0449 | 2057 | 0512 | 2110 | 0542 | 2107 | 0736 | 2043 | 0933 | 2016 | 1038 | 2143 | 1231 | 2312 | 1229 |
| 18 | 1502 | 0530 | 1707 | 0709 | 1556 | 0542 | 1840 | 0551 | 1958 | 0520 | 2149 | 0600 | 2145 | 0641 | 2130 | 0836 | 2109 | 1036 | 2057 | 1143 | 2254 | 1315 | | 1259 |
| 19 | 1559 | 0639 | 1826 | 0751 | 1715 | 0620 | 1955 | 0620 | 2107 | 0555 | 2234 | 0654 | 2214 | 0742 | 2152 | 0937 | 2140 | 1140 | 2147 | 1244 | | 1353 | 0026 | 1326 |
| 20 | 1706 | 0742 | 1946 | 0827 | 1833 | 0654 | 2108 | 0651 | 2210 | 0634 | 2312 | 0752 | 2240 | 0843 | 2215 | 1038 | 2216 | 1245 | 2246 | 1341 | 0007 | 1425 | 0140 | 1352 |
| 21 | 1821 | 0836 | 2103 | 0859 | 1951 | 0725 | 2218 | 0724 | 2307 | 0719 | 2344 | 0852 | 2303 | 0944 | 2240 | 1140 | 2301 | 1349 | 2353 | 1431 | 0122 | 1454 | 0254 | 1419 |
| 22 | 1939 | 0922 | 2218 | 0929 | 2106 | 0754 | 2324 | 0801 | 2356 | 0810 | | 0953 | 2326 | 1044 | 2308 | 1243 | 2355 | 1450 | | 1514 | 0238 | 1521 | 0408 | 1448 |
| 23 | 2057 | 1000 | 2330 | 0958 | 2220 | 0824 | | 0843 | | 0906 | 0011 | 1054 | 2348 | 1145 | 2341 | 1349 | | 1546 | 0106 | 1551 | 0353 | 1549 | 0522 | 1521 |
| 24 | 2213 | 1033 | | 1028 | 2330 | 0856 | 0024 | 0930 | 0037 | 1005 | 0036 | 1155 | | 1247 | | 1455 | 0058 | 1635 | 0222 | 1623 | 0509 | 1617 | 0633 | 1559 |
| 25 | 2326 | 1103 | 0040 | 1100 | | 0930 | 0116 | 1023 | 0112 | 1105 | 0059 | 1256 | 0012 | 1351 | 0021 | 1600 | 0210 | 1717 | 0340 | 1652 | 0626 | 1649 | 0741 | 1645 |
| 26 | | 1131 | 0146 | 1135 | 0037 | 1009 | 0201 | 1119 | 0142 | 1205 | 0122 | 1358 | 0038 | 1457 | 0111 | 1701 | 0328 | 1753 | 0458 | 1721 | 0741 | 1725 | 0843 | 1737 |
| 27 | 0037 | 1159 | 0249 | 1214 | 0138 | 1052 | 0239 | 1218 | 0209 | 1306 | 0146 | 1501 | 0109 | 1604 | 0211 | 1756 | 0447 | 1825 | 0617 | 1749 | 0853 | 1807 | 0935 | 1835 |
| 28 | 0145 | 1228 | 0346 | 1259 | 0233 | 1141 | 0312 | 1318 | 0233 | 1408 | 0211 | 1607 | 0146 | 1712 | 0321 | 1844 | 0608 | 1855 | 0735 | 1820 | 0958 | 1856 | 1019 | 1937 |
| 29 | 0251 | 1300 | | | 0321 | 1234 | 0340 | 1418 | 0256 | 1510 | 0240 | 1716 | 0232 | 1818 | 0438 | 1924 | 0727 | 1924 | 0851 | 1854 | 1056 | 1951 | 1055 | 2041 |
| 30 | 0355 | 1336 | | | 0403 | 1330 | 0406 | 1520 | 0319 | 1613 | 0314 | 1825 | 0328 | 1918 | 0558 | 1959 | 0846 | 1954 | 1005 | 1934 | 1144 | 2051 | 1126 | 2143 |
| 31 | 0455 | 1416 | | | 0438 | 1429 | | | 0344 | 1719 | | | 0434 | 2010 | 0718 | 2029 | | | 1113 | 2019 | | | 1151 | 2245 |

Add one hour for daylight time, if and when in use.

[Back to form](#)