

## GEN 2.7 SUNRISE/SUNSET

## 1 UNIFORM DAYLIGHT PERIOD

The uniform daylight period is based on sunrise and sunset time at 5200N 00500E (namely from 15 minutes before sunrise until 15 minutes after sunset).

The times are given in UTC (see also GEN 2.1 paragraph 2). To obtain the local time, add 1 hour during the wintertime period and 2 hours during the summertime period to the times mentioned below. The transition from wintertime period to summertime period and v.v. is marked in bold.

| UNIFORM DAYLIGHT PERIODS 2024 |            |      |        |      |        |      |             |      |        |      |        |      |        |      |
|-------------------------------|------------|------|--------|------|--------|------|-------------|------|--------|------|--------|------|--------|------|
| Day                           | DEC (2023) |      | JAN    |      | FEB    |      | MAR         |      | APR    |      | MAY    |      | JUN    |      |
|                               | period     |      | period |      | period |      | period      |      | period |      | period |      | period |      |
|                               | from       | to   | from   | to   | from   | to   | from        | to   | from   | to   | from   | to   | from   | to   |
| 1                             | 0710       | 1547 | 0733   | 1554 | 0706   | 1642 | 0610        | 1735 | 0459   | 1829 | 0355   | 1921 | 0311   | 2006 |
| 2                             | 0711       | 1547 | 0733   | 1555 | 0704   | 1644 | 0608        | 1737 | 0457   | 1831 | 0353   | 1922 | 0310   | 2007 |
| 3                             | 0713       | 1546 | 0733   | 1556 | 0703   | 1646 | 0605        | 1739 | 0454   | 1833 | 0351   | 1924 | 0309   | 2008 |
| 4                             | 0714       | 1546 | 0733   | 1557 | 0701   | 1647 | 0603        | 1741 | 0452   | 1835 | 0349   | 1926 | 0308   | 2009 |
| 5                             | 0716       | 1545 | 0732   | 1558 | 0659   | 1649 | 0601        | 1743 | 0450   | 1836 | 0347   | 1927 | 0308   | 2010 |
| 6                             | 0717       | 1545 | 0732   | 1559 | 0658   | 1651 | 0559        | 1744 | 0448   | 1838 | 0345   | 1929 | 0307   | 2011 |
| 7                             | 0718       | 1544 | 0732   | 1601 | 0656   | 1653 | 0557        | 1746 | 0445   | 1840 | 0344   | 1930 | 0307   | 2012 |
| 8                             | 0719       | 1544 | 0731   | 1602 | 0654   | 1655 | 0554        | 1748 | 0443   | 1841 | 0342   | 1932 | 0306   | 2012 |
| 9                             | 0720       | 1544 | 0731   | 1603 | 0652   | 1657 | 0552        | 1750 | 0441   | 1843 | 0340   | 1934 | 0306   | 2013 |
| 10                            | 0722       | 1544 | 0730   | 1605 | 0651   | 1659 | 0550        | 1751 | 0439   | 1845 | 0339   | 1935 | 0306   | 2014 |
| 11                            | 0723       | 1543 | 0730   | 1606 | 0649   | 1700 | 0547        | 1753 | 0436   | 1847 | 0337   | 1937 | 0305   | 2015 |
| 12                            | 0724       | 1543 | 0729   | 1608 | 0647   | 1702 | 0545        | 1755 | 0434   | 1848 | 0335   | 1938 | 0305   | 2015 |
| 13                            | 0725       | 1543 | 0728   | 1609 | 0645   | 1704 | 0543        | 1757 | 0432   | 1850 | 0334   | 1940 | 0305   | 2016 |
| 14                            | 0726       | 1543 | 0727   | 1611 | 0643   | 1706 | 0541        | 1758 | 0430   | 1852 | 0332   | 1942 | 0305   | 2016 |
| 15                            | 0726       | 1543 | 0727   | 1612 | 0641   | 1708 | 0538        | 1800 | 0428   | 1853 | 0331   | 1943 | 0304   | 2017 |
| 16                            | 0727       | 1544 | 0726   | 1614 | 0639   | 1710 | 0536        | 1802 | 0425   | 1855 | 0329   | 1945 | 0304   | 2017 |
| 17                            | 0728       | 1544 | 0725   | 1616 | 0637   | 1712 | 0534        | 1804 | 0423   | 1857 | 0328   | 1946 | 0304   | 2018 |
| 18                            | 0729       | 1544 | 0724   | 1617 | 0635   | 1713 | 0531        | 1805 | 0421   | 1859 | 0326   | 1948 | 0304   | 2018 |
| 19                            | 0729       | 1544 | 0723   | 1619 | 0633   | 1715 | 0529        | 1807 | 0419   | 1900 | 0325   | 1949 | 0305   | 2018 |
| 20                            | 0730       | 1545 | 0722   | 1620 | 0631   | 1717 | 0527        | 1809 | 0417   | 1902 | 0324   | 1951 | 0305   | 2019 |
| 21                            | 0731       | 1545 | 0721   | 1622 | 0629   | 1719 | 0524        | 1811 | 0415   | 1904 | 0322   | 1952 | 0305   | 2019 |
| 22                            | 0731       | 1546 | 0719   | 1624 | 0627   | 1721 | 0522        | 1812 | 0413   | 1905 | 0321   | 1953 | 0305   | 2019 |
| 23                            | 0732       | 1546 | 0718   | 1626 | 0625   | 1723 | 0520        | 1814 | 0410   | 1907 | 0320   | 1955 | 0305   | 2019 |
| 24                            | 0732       | 1547 | 0717   | 1627 | 0623   | 1725 | 0517        | 1816 | 0408   | 1909 | 0319   | 1956 | 0306   | 2019 |
| 25                            | 0732       | 1548 | 0716   | 1629 | 0621   | 1726 | 0515        | 1817 | 0406   | 1910 | 0317   | 1957 | 0306   | 2019 |
| 26                            | 0733       | 1548 | 0714   | 1631 | 0619   | 1728 | 0513        | 1819 | 0404   | 1912 | 0316   | 1959 | 0307   | 2019 |
| 27                            | 0733       | 1549 | 0713   | 1633 | 0616   | 1730 | 0511        | 1821 | 0402   | 1914 | 0315   | 2000 | 0307   | 2019 |
| 28                            | 0733       | 1550 | 0712   | 1634 | 0614   | 1732 | 0508        | 1823 | 0400   | 1916 | 0314   | 2001 | 0308   | 2019 |
| 29                            | 0733       | 1551 | 0710   | 1636 | 0612   | 1734 | 0506        | 1824 | 0358   | 1917 | 0313   | 2002 | 0308   | 2019 |
| 30                            | 0733       | 1552 | 0709   | 1638 |        |      | 0504        | 1826 | 0356   | 1919 | 0312   | 2004 | 0309   | 2018 |
| 31                            | 0733       | 1553 | 0707   | 1640 |        |      | <b>0501</b> | 1828 |        |      | 0311   | 2005 |        |      |

| UNIFORM DAYLIGHT PERIODS 2024 |        |      |        |      |        |      |             |      |        |      |        |      |
|-------------------------------|--------|------|--------|------|--------|------|-------------|------|--------|------|--------|------|
| Day                           | JUL    |      | AUG    |      | SEP    |      | OCT         |      | NOV    |      | DEC    |      |
|                               | period |      | period |      | period |      | period      |      | period |      | period |      |
|                               | from   | to   | from   | to   | from   | to   | from        | to   | from   | to   | from   | to   |
| 1                             | 0310   | 2018 | 0347   | 1944 | 0437   | 1841 | 0527        | 1731 | 0621   | 1626 | 0711   | 1547 |
| 2                             | 0310   | 2017 | 0349   | 1942 | 0439   | 1839 | 0528        | 1729 | 0622   | 1624 | 0713   | 1546 |
| 3                             | 0311   | 2017 | 0351   | 1941 | 0441   | 1837 | 0530        | 1727 | 0624   | 1622 | 0714   | 1546 |
| 4                             | 0312   | 2017 | 0352   | 1939 | 0442   | 1834 | 0532        | 1725 | 0626   | 1620 | 0715   | 1545 |
| 5                             | 0313   | 2016 | 0354   | 1937 | 0444   | 1832 | 0533        | 1722 | 0628   | 1619 | 0717   | 1545 |
| 6                             | 0314   | 2015 | 0355   | 1935 | 0446   | 1830 | 0535        | 1720 | 0630   | 1617 | 0718   | 1544 |
| 7                             | 0315   | 2015 | 0357   | 1934 | 0447   | 1827 | 0537        | 1718 | 0631   | 1615 | 0719   | 1544 |
| 8                             | 0316   | 2014 | 0358   | 1932 | 0449   | 1825 | 0538        | 1716 | 0633   | 1614 | 0720   | 1544 |
| 9                             | 0317   | 2013 | 0400   | 1930 | 0450   | 1823 | 0540        | 1713 | 0635   | 1612 | 0721   | 1544 |
| 10                            | 0318   | 2013 | 0402   | 1928 | 0452   | 1820 | 0542        | 1711 | 0637   | 1611 | 0722   | 1543 |
| 11                            | 0319   | 2012 | 0403   | 1926 | 0454   | 1818 | 0543        | 1709 | 0639   | 1609 | 0723   | 1543 |
| 12                            | 0320   | 2011 | 0405   | 1924 | 0455   | 1816 | 0545        | 1707 | 0640   | 1608 | 0724   | 1543 |
| 13                            | 0321   | 2010 | 0406   | 1922 | 0457   | 1814 | 0547        | 1704 | 0642   | 1606 | 0725   | 1543 |
| 14                            | 0322   | 2009 | 0408   | 1920 | 0459   | 1811 | 0549        | 1702 | 0644   | 1605 | 0726   | 1543 |
| 15                            | 0324   | 2008 | 0410   | 1918 | 0500   | 1809 | 0550        | 1700 | 0646   | 1603 | 0727   | 1544 |
| 16                            | 0325   | 2007 | 0411   | 1916 | 0502   | 1807 | 0552        | 1658 | 0647   | 1602 | 0728   | 1544 |
| 17                            | 0326   | 2006 | 0413   | 1914 | 0503   | 1804 | 0554        | 1656 | 0649   | 1601 | 0729   | 1544 |
| 18                            | 0327   | 2004 | 0415   | 1912 | 0505   | 1802 | 0556        | 1654 | 0651   | 1559 | 0729   | 1544 |
| 19                            | 0329   | 2003 | 0416   | 1910 | 0507   | 1759 | 0557        | 1652 | 0652   | 1558 | 0730   | 1545 |
| 20                            | 0330   | 2002 | 0418   | 1908 | 0508   | 1757 | 0559        | 1649 | 0654   | 1557 | 0730   | 1545 |
| 21                            | 0331   | 2001 | 0419   | 1905 | 0510   | 1755 | 0601        | 1647 | 0656   | 1556 | 0731   | 1546 |
| 22                            | 0333   | 1959 | 0421   | 1903 | 0512   | 1752 | 0603        | 1645 | 0657   | 1555 | 0731   | 1546 |
| 23                            | 0334   | 1958 | 0423   | 1901 | 0513   | 1750 | 0604        | 1643 | 0659   | 1554 | 0732   | 1547 |
| 24                            | 0336   | 1957 | 0424   | 1859 | 0515   | 1748 | 0606        | 1641 | 0701   | 1553 | 0732   | 1547 |
| 25                            | 0337   | 1955 | 0426   | 1857 | 0517   | 1745 | 0608        | 1639 | 0702   | 1552 | 0733   | 1548 |
| 26                            | 0338   | 1954 | 0428   | 1855 | 0518   | 1743 | 0610        | 1637 | 0704   | 1551 | 0733   | 1549 |
| 27                            | 0340   | 1952 | 0429   | 1852 | 0520   | 1741 | <b>0612</b> | 1635 | 0705   | 1550 | 0733   | 1550 |
| 28                            | 0341   | 1951 | 0431   | 1850 | 0522   | 1738 | 0613        | 1633 | 0707   | 1549 | 0733   | 1551 |
| 29                            | 0343   | 1949 | 0433   | 1848 | 0523   | 1736 | 0615        | 1631 | 0708   | 1548 | 0733   | 1551 |
| 30                            | 0344   | 1947 | 0434   | 1846 | 0525   | 1734 | 0617        | 1630 | 0710   | 1548 | 0733   | 1552 |
| 31                            | 0346   | 1946 | 0436   | 1843 |        |      | 0619        | 1628 |        |      | 0733   | 1553 |

**2 SUNRISE AND SUNSET**

Sunrise and sunset times at 5200N 00500E are depicted in the table below.

The times are given in UTC (see also GEN 2.1 paragraph 2). To obtain the local time, add 1 hour during the wintertime period and 2 hours during the summertime period to the times mentioned below. The transition from wintertime period to summertime period and v.v. is marked in bold.

| <b>SUNRISE AND SUNSET 2024</b> |            |      |      |      |      |      |             |      |      |      |      |      |      |      |
|--------------------------------|------------|------|------|------|------|------|-------------|------|------|------|------|------|------|------|
| Day                            | DEC (2023) |      | JAN  |      | FEB  |      | MAR         |      | APR  |      | MAY  |      | JUN  |      |
|                                | SR         | SS   | SR   | SS   | SR   | SS   | SR          | SS   | SR   | SS   | SR   | SS   | SR   | SS   |
| 1                              | 0725       | 1532 | 0748 | 1539 | 0721 | 1627 | 0625        | 1720 | 0514 | 1814 | 0410 | 1906 | 0326 | 1951 |
| 2                              | 0726       | 1532 | 0748 | 1540 | 0719 | 1629 | 0623        | 1722 | 0512 | 1816 | 0408 | 1907 | 0325 | 1952 |
| 3                              | 0728       | 1531 | 0748 | 1541 | 0718 | 1631 | 0620        | 1724 | 0509 | 1818 | 0406 | 1909 | 0324 | 1953 |
| 4                              | 0729       | 1531 | 0748 | 1542 | 0716 | 1632 | 0618        | 1726 | 0507 | 1820 | 0404 | 1911 | 0323 | 1954 |
| 5                              | 0731       | 1530 | 0747 | 1543 | 0714 | 1634 | 0616        | 1728 | 0505 | 1821 | 0402 | 1912 | 0323 | 1955 |
| 6                              | 0732       | 1530 | 0747 | 1544 | 0713 | 1636 | 0614        | 1729 | 0503 | 1823 | 0400 | 1914 | 0322 | 1956 |
| 7                              | 0733       | 1529 | 0747 | 1546 | 0711 | 1638 | 0612        | 1731 | 0500 | 1825 | 0359 | 1915 | 0322 | 1957 |
| 8                              | 0734       | 1529 | 0746 | 1547 | 0709 | 1640 | 0609        | 1733 | 0458 | 1826 | 0357 | 1917 | 0321 | 1957 |
| 9                              | 0735       | 1529 | 0746 | 1548 | 0707 | 1642 | 0607        | 1735 | 0456 | 1828 | 0355 | 1919 | 0321 | 1958 |
| 10                             | 0737       | 1529 | 0745 | 1550 | 0706 | 1644 | 0605        | 1736 | 0454 | 1830 | 0354 | 1920 | 0321 | 1959 |
| 11                             | 0738       | 1528 | 0745 | 1551 | 0704 | 1645 | 0602        | 1738 | 0451 | 1832 | 0352 | 1922 | 0320 | 2000 |
| 12                             | 0739       | 1528 | 0744 | 1553 | 0702 | 1647 | 0600        | 1740 | 0449 | 1833 | 0350 | 1923 | 0320 | 2000 |
| 13                             | 0740       | 1528 | 0743 | 1554 | 0700 | 1649 | 0558        | 1742 | 0447 | 1835 | 0349 | 1925 | 0320 | 2001 |
| 14                             | 0741       | 1528 | 0742 | 1556 | 0658 | 1651 | 0556        | 1743 | 0445 | 1837 | 0347 | 1927 | 0320 | 2001 |
| 15                             | 0741       | 1528 | 0742 | 1557 | 0656 | 1653 | 0553        | 1745 | 0443 | 1838 | 0346 | 1928 | 0319 | 2002 |
| 16                             | 0742       | 1529 | 0741 | 1559 | 0654 | 1655 | 0551        | 1747 | 0440 | 1840 | 0344 | 1930 | 0319 | 2002 |
| 17                             | 0743       | 1529 | 0740 | 1601 | 0652 | 1657 | 0549        | 1749 | 0438 | 1842 | 0343 | 1931 | 0319 | 2003 |
| 18                             | 0744       | 1529 | 0739 | 1602 | 0650 | 1658 | 0546        | 1750 | 0436 | 1844 | 0341 | 1933 | 0319 | 2003 |
| 19                             | 0744       | 1529 | 0738 | 1604 | 0648 | 1700 | 0544        | 1752 | 0434 | 1845 | 0340 | 1934 | 0320 | 2003 |
| 20                             | 0745       | 1530 | 0737 | 1605 | 0646 | 1702 | 0542        | 1754 | 0432 | 1847 | 0339 | 1936 | 0320 | 2004 |
| 21                             | 0746       | 1530 | 0736 | 1607 | 0644 | 1704 | 0539        | 1756 | 0430 | 1849 | 0337 | 1937 | 0320 | 2004 |
| 22                             | 0746       | 1531 | 0734 | 1609 | 0642 | 1706 | 0537        | 1757 | 0428 | 1850 | 0336 | 1938 | 0320 | 2004 |
| 23                             | 0747       | 1531 | 0733 | 1611 | 0640 | 1708 | 0535        | 1759 | 0425 | 1852 | 0335 | 1940 | 0320 | 2004 |
| 24                             | 0747       | 1532 | 0732 | 1612 | 0638 | 1710 | 0532        | 1801 | 0423 | 1854 | 0334 | 1941 | 0321 | 2004 |
| 25                             | 0747       | 1533 | 0731 | 1614 | 0636 | 1711 | 0530        | 1802 | 0421 | 1855 | 0332 | 1942 | 0321 | 2004 |
| 26                             | 0748       | 1533 | 0729 | 1616 | 0634 | 1713 | 0528        | 1804 | 0419 | 1857 | 0331 | 1944 | 0322 | 2004 |
| 27                             | 0748       | 1534 | 0728 | 1618 | 0631 | 1715 | 0526        | 1806 | 0417 | 1859 | 0330 | 1945 | 0322 | 2004 |
| 28                             | 0748       | 1535 | 0727 | 1619 | 0629 | 1717 | 0523        | 1808 | 0415 | 1901 | 0329 | 1946 | 0323 | 2004 |
| 29                             | 0748       | 1536 | 0725 | 1621 | 0627 | 1719 | 0521        | 1809 | 0413 | 1902 | 0328 | 1947 | 0323 | 2004 |
| 30                             | 0748       | 1537 | 0724 | 1623 |      |      | 0519        | 1811 | 0411 | 1904 | 0327 | 1949 | 0324 | 2003 |
| 31                             | 0748       | 1538 | 0722 | 1625 |      |      | <b>0516</b> | 1813 |      |      | 0326 | 1950 |      |      |

| SUNRISE AND SUNSET 2024 |      |      |      |      |      |      |             |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|-------------|------|------|------|------|------|
| Day                     | JUL  |      | AUG  |      | SEP  |      | OCT         |      | NOV  |      | DEC  |      |
|                         | SR   | SS   | SR   | SS   | SR   | SS   | SR          | SS   | SR   | SS   | SR   | SS   |
| 1                       | 0325 | 2003 | 0402 | 1929 | 0452 | 1826 | 0542        | 1716 | 0636 | 1611 | 0726 | 1532 |
| 2                       | 0325 | 2002 | 0404 | 1927 | 0454 | 1824 | 0543        | 1714 | 0637 | 1609 | 0728 | 1531 |
| 3                       | 0326 | 2002 | 0406 | 1926 | 0456 | 1822 | 0545        | 1712 | 0639 | 1607 | 0729 | 1531 |
| 4                       | 0327 | 2002 | 0407 | 1924 | 0457 | 1819 | 0547        | 1710 | 0641 | 1605 | 0730 | 1530 |
| 5                       | 0328 | 2001 | 0409 | 1922 | 0459 | 1817 | 0548        | 1707 | 0643 | 1604 | 0732 | 1530 |
| 6                       | 0329 | 2000 | 0410 | 1920 | 0501 | 1815 | 0550        | 1705 | 0645 | 1602 | 0733 | 1529 |
| 7                       | 0330 | 2000 | 0412 | 1919 | 0502 | 1812 | 0552        | 1703 | 0646 | 1600 | 0734 | 1529 |
| 8                       | 0331 | 1959 | 0413 | 1917 | 0504 | 1810 | 0553        | 1701 | 0648 | 1559 | 0735 | 1529 |
| 9                       | 0332 | 1958 | 0415 | 1915 | 0505 | 1808 | 0555        | 1658 | 0650 | 1557 | 0736 | 1529 |
| 10                      | 0333 | 1958 | 0417 | 1913 | 0507 | 1805 | 0557        | 1656 | 0652 | 1556 | 0737 | 1528 |
| 11                      | 0334 | 1957 | 0418 | 1911 | 0509 | 1803 | 0558        | 1654 | 0654 | 1554 | 0738 | 1528 |
| 12                      | 0335 | 1956 | 0420 | 1909 | 0510 | 1801 | 0600        | 1652 | 0655 | 1553 | 0739 | 1528 |
| 13                      | 0336 | 1955 | 0421 | 1907 | 0512 | 1759 | 0602        | 1649 | 0657 | 1551 | 0740 | 1528 |
| 14                      | 0337 | 1954 | 0423 | 1905 | 0514 | 1756 | 0604        | 1647 | 0659 | 1550 | 0741 | 1528 |
| 15                      | 0339 | 1953 | 0425 | 1903 | 0515 | 1754 | 0605        | 1645 | 0701 | 1548 | 0742 | 1529 |
| 16                      | 0340 | 1952 | 0426 | 1901 | 0517 | 1752 | 0607        | 1643 | 0702 | 1547 | 0743 | 1529 |
| 17                      | 0341 | 1951 | 0428 | 1859 | 0518 | 1749 | 0609        | 1641 | 0704 | 1546 | 0744 | 1529 |
| 18                      | 0342 | 1949 | 0430 | 1857 | 0520 | 1747 | 0611        | 1639 | 0706 | 1544 | 0744 | 1529 |
| 19                      | 0344 | 1948 | 0431 | 1855 | 0522 | 1744 | 0612        | 1637 | 0707 | 1543 | 0745 | 1530 |
| 20                      | 0345 | 1947 | 0433 | 1853 | 0523 | 1742 | 0614        | 1634 | 0709 | 1542 | 0745 | 1530 |
| 21                      | 0346 | 1946 | 0434 | 1850 | 0525 | 1740 | 0616        | 1632 | 0711 | 1541 | 0746 | 1531 |
| 22                      | 0348 | 1944 | 0436 | 1848 | 0527 | 1737 | 0618        | 1630 | 0712 | 1540 | 0746 | 1531 |
| 23                      | 0349 | 1943 | 0438 | 1846 | 0528 | 1735 | 0619        | 1628 | 0714 | 1539 | 0747 | 1532 |
| 24                      | 0351 | 1942 | 0439 | 1844 | 0530 | 1733 | 0621        | 1626 | 0716 | 1538 | 0747 | 1532 |
| 25                      | 0352 | 1940 | 0441 | 1842 | 0532 | 1730 | 0623        | 1624 | 0717 | 1537 | 0748 | 1533 |
| 26                      | 0353 | 1939 | 0443 | 1840 | 0533 | 1728 | 0625        | 1622 | 0719 | 1536 | 0748 | 1534 |
| 27                      | 0355 | 1937 | 0444 | 1837 | 0535 | 1726 | <b>0627</b> | 1620 | 0720 | 1535 | 0748 | 1535 |
| 28                      | 0356 | 1936 | 0446 | 1835 | 0537 | 1723 | 0628        | 1618 | 0722 | 1534 | 0748 | 1536 |
| 29                      | 0358 | 1934 | 0448 | 1833 | 0538 | 1721 | 0630        | 1616 | 0723 | 1533 | 0748 | 1536 |
| 30                      | 0359 | 1932 | 0449 | 1831 | 0540 | 1719 | 0632        | 1615 | 0725 | 1533 | 0748 | 1537 |
| 31                      | 0401 | 1931 | 0451 | 1828 |      |      | 0634        | 1613 |      |      | 0748 | 1538 |