

CREPUSCOLI, TRANSITI, SORGERE E TRAMONTARE 2024 (Lat = 0 Lon = 0)

| 2024 | Crepuscolo | | S O L E | | | Crepuscolo | | L U N A | | | | | | | | | | |
|--------|------------|-------|---------|---------|-------|------------|-------|---------|---------|-------|----|----|----|----|----|-------|-------|-------|
| | Naut. | Civil | Sorge | Culmina | Tramt | Civil | Naut. | Sorge | Culmina | Tramt | | | | | | | | |
| | h | m | h | m | s | h | m | h | m | h | m | | | | | | | |
| Jan 01 | 05 | 11 | 05 | 37 | 06 | 01 | 12 | 03 | 19 | 18 | 06 | 18 | 30 | 18 | 56 | 22.33 | 4.02 | 10.12 |
| 02 | 05 | 11 | 05 | 38 | 06 | 01 | 12 | 03 | 47 | 18 | 07 | 18 | 30 | 18 | 56 | 23.12 | 4.42 | 10.52 |
| 03 | 05 | 12 | 05 | 38 | 06 | 01 | 12 | 04 | 15 | 18 | 07 | 18 | 30 | 18 | 57 | 23.51 | 5.21 | 11.31 |
| 04 | 05 | 12 | 05 | 39 | 06 | 02 | 12 | 04 | 43 | 18 | 07 | 18 | 31 | 18 | 57 | | 6.01 | 12.10 |
| 05 | 05 | 13 | 05 | 39 | 06 | 02 | 12 | 05 | 10 | 18 | 08 | 18 | 31 | 18 | 57 | 0.32 | 6.41 | 12.52 |
| 06 | 05 | 13 | 05 | 39 | 06 | 03 | 12 | 05 | 37 | 18 | 08 | 18 | 32 | 18 | 58 | 1.15 | 7.25 | 13.37 |
| 07 | 05 | 14 | 05 | 40 | 06 | 03 | 12 | 06 | 03 | 18 | 09 | 18 | 32 | 18 | 58 | 2.02 | 8.13 | 14.26 |
| 08 | 05 | 14 | 05 | 40 | 06 | 04 | 12 | 06 | 29 | 18 | 09 | 18 | 33 | 18 | 59 | 2.54 | 9.06 | 15.20 |
| 09 | 05 | 15 | 05 | 41 | 06 | 04 | 12 | 06 | 54 | 18 | 10 | 18 | 33 | 18 | 59 | 3.51 | 10.04 | 16.20 |
| 10 | 05 | 15 | 05 | 41 | 06 | 05 | 12 | 07 | 19 | 18 | 10 | 18 | 33 | 18 | 59 | 4.53 | 11.07 | 17.23 |
| 11 | 05 | 16 | 05 | 42 | 06 | 05 | 12 | 07 | 43 | 18 | 10 | 18 | 34 | 19 | 00 | 5.57 | 12.10 | 18.26 |
| 12 | 05 | 16 | 05 | 42 | 06 | 05 | 12 | 08 | 07 | 18 | 11 | 18 | 34 | 19 | 00 | 6.60 | 13.12 | 19.28 |
| 13 | 05 | 17 | 05 | 43 | 06 | 06 | 12 | 08 | 30 | 18 | 11 | 18 | 34 | 19 | 00 | 7.59 | 14.11 | 20.25 |
| 14 | 05 | 17 | 05 | 43 | 06 | 06 | 12 | 08 | 52 | 18 | 12 | 18 | 35 | 19 | 01 | 8.54 | 15.05 | 21.18 |
| 15 | 05 | 18 | 05 | 43 | 06 | 07 | 12 | 09 | 14 | 18 | 12 | 18 | 35 | 19 | 01 | 9.45 | 15.56 | 22.08 |
| 16 | 05 | 18 | 05 | 44 | 06 | 07 | 12 | 09 | 35 | 18 | 12 | 18 | 35 | 19 | 01 | 10.34 | 16.44 | 22.56 |
| 17 | 05 | 18 | 05 | 44 | 06 | 07 | 12 | 09 | 55 | 18 | 13 | 18 | 36 | 19 | 01 | 11.22 | 17.32 | 23.44 |
| 18 | 05 | 19 | 05 | 45 | 06 | 08 | 12 | 10 | 15 | 18 | 13 | 18 | 36 | 19 | 02 | 12.10 | 18.20 | |
| 19 | 05 | 19 | 05 | 45 | 06 | 08 | 12 | 10 | 34 | 18 | 13 | 18 | 36 | 19 | 02 | 12.59 | 19.10 | 0.33 |
| 20 | 05 | 20 | 05 | 45 | 06 | 08 | 12 | 10 | 52 | 18 | 14 | 18 | 37 | 19 | 02 | 13.51 | 20.02 | 1.23 |
| 21 | 05 | 20 | 05 | 46 | 06 | 08 | 12 | 11 | 09 | 18 | 14 | 18 | 37 | 19 | 02 | 14.45 | 20.56 | 2.16 |
| 22 | 05 | 20 | 05 | 46 | 06 | 09 | 12 | 11 | 26 | 18 | 14 | 18 | 37 | 19 | 03 | 15.40 | 21.51 | 3.11 |
| 23 | 05 | 21 | 05 | 46 | 06 | 09 | 12 | 11 | 42 | 18 | 14 | 18 | 37 | 19 | 03 | 16.35 | 22.46 | 4.06 |
| 24 | 05 | 21 | 05 | 46 | 06 | 09 | 12 | 11 | 57 | 18 | 15 | 18 | 37 | 19 | 03 | 17.28 | 23.39 | 5.01 |
| 25 | 05 | 21 | 05 | 47 | 06 | 10 | 12 | 12 | 11 | 18 | 15 | 18 | 38 | 19 | 03 | 18.19 | | 5.53 |
| 26 | 05 | 22 | 05 | 47 | 06 | 10 | 12 | 12 | 25 | 18 | 15 | 18 | 38 | 19 | 03 | 19.05 | 0.30 | 6.41 |
| 27 | 05 | 22 | 05 | 47 | 06 | 10 | 12 | 12 | 37 | 18 | 15 | 18 | 38 | 19 | 03 | 19.49 | 1.16 | 7.27 |
| 28 | 05 | 22 | 05 | 47 | 06 | 10 | 12 | 12 | 49 | 18 | 15 | 18 | 38 | 19 | 03 | 20.30 | 1.59 | 8.09 |
| 29 | 05 | 22 | 05 | 48 | 06 | 10 | 12 | 13 | 00 | 18 | 16 | 18 | 38 | 19 | 04 | 21.09 | 2.39 | 8.49 |
| 30 | 05 | 23 | 05 | 48 | 06 | 11 | 12 | 13 | 10 | 18 | 16 | 18 | 38 | 19 | 04 | 21.48 | 3.19 | 9.28 |
| 31 | 05 | 23 | 05 | 48 | 06 | 11 | 12 | 13 | 20 | 18 | 16 | 18 | 39 | 19 | 04 | 22.28 | 3.57 | 10.07 |
| Feb 01 | 05 | 23 | 05 | 48 | 06 | 11 | 12 | 13 | 29 | 18 | 16 | 18 | 39 | 19 | 04 | 23.09 | 4.37 | 10.47 |
| 02 | 05 | 23 | 05 | 48 | 06 | 11 | 12 | 13 | 36 | 18 | 16 | 18 | 39 | 19 | 04 | 23.53 | 5.19 | 11.29 |
| 03 | 05 | 24 | 05 | 49 | 06 | 11 | 12 | 13 | 44 | 18 | 16 | 18 | 39 | 19 | 04 | | 6.03 | 12.15 |
| 04 | 05 | 24 | 05 | 49 | 06 | 11 | 12 | 13 | 50 | 18 | 16 | 18 | 39 | 19 | 04 | 0.41 | 6.53 | 13.06 |
| 05 | 05 | 24 | 05 | 49 | 06 | 11 | 12 | 13 | 55 | 18 | 16 | 18 | 39 | 19 | 04 | 1.34 | 7.47 | 14.01 |
| 06 | 05 | 24 | 05 | 49 | 06 | 11 | 12 | 14 | 00 | 18 | 17 | 18 | 39 | 19 | 04 | 2.33 | 8.46 | 15.01 |
| 07 | 05 | 24 | 05 | 49 | 06 | 12 | 12 | 14 | 04 | 18 | 17 | 18 | 39 | 19 | 04 | 3.35 | 9.49 | 16.04 |
| 08 | 05 | 24 | 05 | 49 | 06 | 12 | 12 | 14 | 07 | 18 | 17 | 18 | 39 | 19 | 04 | 4.38 | 10.52 | 17.07 |
| 09 | 05 | 24 | 05 | 49 | 06 | 12 | 12 | 14 | 09 | 18 | 17 | 18 | 39 | 19 | 04 | 5.40 | 11.53 | 18.07 |
| 10 | 05 | 25 | 05 | 49 | 06 | 12 | 12 | 14 | 11 | 18 | 17 | 18 | 39 | 19 | 04 | 6.38 | 12.50 | 19.04 |
| 11 | 05 | 25 | 05 | 49 | 06 | 12 | 12 | 14 | 12 | 18 | 17 | 18 | 39 | 19 | 04 | 7.33 | 13.44 | 19.57 |
| 12 | 05 | 25 | 05 | 49 | 06 | 12 | 12 | 14 | 12 | 18 | 17 | 18 | 39 | 19 | 04 | 8.25 | 14.35 | 20.48 |
| 13 | 05 | 25 | 05 | 49 | 06 | 12 | 12 | 14 | 11 | 18 | 17 | 18 | 39 | 19 | 04 | 9.15 | 15.25 | 21.38 |
| 14 | 05 | 25 | 05 | 50 | 06 | 12 | 12 | 14 | 09 | 18 | 17 | 18 | 39 | 19 | 03 | 10.04 | 16.15 | 22.28 |
| 15 | 05 | 25 | 05 | 50 | 06 | 12 | 12 | 14 | 07 | 18 | 17 | 18 | 39 | 19 | 03 | 10.55 | 17.05 | 23.19 |
| 16 | 05 | 25 | 05 | 49 | 06 | 12 | 12 | 14 | 04 | 18 | 17 | 18 | 39 | 19 | 03 | 11.47 | 17.58 | |
| 17 | 05 | 25 | 05 | 49 | 06 | 12 | 12 | 14 | 00 | 18 | 16 | 18 | 39 | 19 | 03 | 12.41 | 18.52 | 0.12 |
| 18 | 05 | 25 | 05 | 49 | 06 | 11 | 12 | 13 | 56 | 18 | 16 | 18 | 38 | 19 | 03 | 13.36 | 19.47 | 1.06 |
| 19 | 05 | 25 | 05 | 49 | 06 | 11 | 12 | 13 | 50 | 18 | 16 | 18 | 38 | 19 | 03 | 14.31 | 20.42 | 2.02 |
| 20 | 05 | 25 | 05 | 49 | 06 | 11 | 12 | 13 | 45 | 18 | 16 | 18 | 38 | 19 | 03 | 15.24 | 21.35 | 2.56 |
| 21 | 05 | 25 | 05 | 49 | 06 | 11 | 12 | 13 | 38 | 18 | 16 | 18 | 38 | 19 | 02 | 16.15 | 22.25 | 3.49 |
| 22 | 05 | 25 | 05 | 49 | 06 | 11 | 12 | 13 | 31 | 18 | 16 | 18 | 38 | 19 | 02 | 17.03 | 23.12 | 4.38 |
| 23 | 05 | 25 | 05 | 49 | 06 | 11 | 12 | 13 | 23 | 18 | 16 | 18 | 38 | 19 | 02 | 17.47 | 23.56 | 5.24 |
| 24 | 05 | 25 | 05 | 49 | 06 | 11 | 12 | 13 | 15 | 18 | 16 | 18 | 38 | 19 | 02 | 18.29 | | 6.07 |
| 25 | 05 | 24 | 05 | 49 | 06 | 11 | 12 | 13 | 05 | 18 | 16 | 18 | 37 | 19 | 02 | 19.08 | 0.38 | 6.48 |
| 26 | 05 | 24 | 05 | 49 | 06 | 11 | 12 | 12 | 56 | 18 | 15 | 18 | 37 | 19 | 01 | 19.47 | 1.18 | 7.27 |
| 27 | 05 | 24 | 05 | 49 | 06 | 10 | 12 | 12 | 46 | 18 | 15 | 18 | 37 | 19 | 01 | 20.26 | 1.56 | 8.06 |
| 28 | 05 | 24 | 05 | 48 | 06 | 10 | 12 | 12 | 35 | 18 | 15 | 18 | 37 | 19 | 01 | 21.06 | 2.36 | 8.45 |
| 29 | 05 | 24 | 05 | 48 | 06 | 10 | 12 | 12 | 24 | 18 | 15 | 18 | 37 | 19 | 01 | 21.49 | 3.16 | 9.26 |
| Mar 01 | 05 | 24 | 05 | 48 | 06 | 10 | 12 | 12 | 12 | 18 | 15 | 18 | 36 | 19 | 01 | 22.35 | 3.59 | 10.10 |
| 02 | 05 | 24 | 05 | 48 | 06 | 10 | 12 | 12 | 00 | 18 | 14 | 18 | 36 | 19 | 00 | 23.25 | 4.46 | 10.58 |
| 03 | 05 | 24 | 05 | 48 | 06 | 09 | 12 | 11 | 47 | 18 | 14 | 18 | 36 | 19 | 00 | | 5.37 | 11.50 |
| 04 | 05 | 23 | 05 | 47 | 06 | 09 | 12 | 11 | 34 | 18 | 14 | 18 | 36 | 19 | 00 | 0.19 | 6.32 | 12.47 |
| 05 | 05 | 23 | 05 | 47 | 06 | 09 | 12 | 11 | 20 | 18 | 14 | 18 | 35 | 19 | 00 | 1.18 | 7.31 | 13.46 |
| 06 | 05 | 23 | 05 | 47 | 06 | 09 | 12 | 11 | 06 | 18 | 13 | 18 | 35 | 18 | 59 | 2.19 | 8.32 | 14.47 |
| 07 | 05 | 23 | 05 | 47 | 06 | 08 | 12 | 10 | 52 | 18 | 13 | 18 | 35 | 18 | 59 | 3.20 | 9.33 | 15.48 |
| 08 | 05 | 23 | 05 | 47 | 06 | 08 | 12 | 10 | 37 | 18 | 13 | 18 | 35 | 18 | 59 | 4.19 | 10.31 | 16.45 |
| 09 | 05 | 22 | 05 | 46 | 06 | 08 | 12 | 10 | 22 | 18 | 13 | 18 | 34 | 18 | 58 | 5.15 | 11.27 | 17.40 |
| 10 | 05 | 22 | 05 | 46 | 06 | 08 | 12 | 10 | 07 | 18 | 12 | 18 | 34 | 18 | 58 | 6.09 | 12.20 | 18.33 |
| 11 | 05 | 22 | 05 | 46 | 06 | 07 | 12 | 09 | 51 | 18 | 12 | 18 | 34 | 18 | 58 | 7.00 | 13.11 | 19.24 |
| 12 | 05 | 22 | 05 | 46 | 06 | 07 | 12 | 09 | 35 | 18 | 12 | 18 | 34 | 18 | 58 | 7.52 | 14.02 | 20.15 |
| 13 | 05 | 21 | 05 | 45 | 06 | 07 | 12 | 09 | 19 | 18 | 12 | 18 | 33 | 18 | 57 | 8.43 | 14.55 | 21.08 |

CREPUSCOLI, TRANSITI, SORGERE E TRAMONTARE 2024 (Lat = 0 Lon = 0)

| 2024 | Crepuscolo | | S O L E | | | Crepuscolo | | L U N A | | | |
|------|------------|-------|---------|---------|----------|------------|-------|---------|---------|-------|-------|
| | Naut. | Civil | Sorge | Culmina | Tram | Civil | Naut. | Sorge | Culmina | Tram | |
| | h | m | h | m | s | h | m | h | m | h | m |
| Mar | 14 | 05 21 | 05 45 | 06 07 | 12 09 02 | 18 11 | 18 33 | 18 57 | 9.37 | 15.48 | 22.02 |
| | 15 | 05 21 | 05 45 | 06 06 | 12 08 46 | 18 11 | 18 33 | 18 57 | 10.32 | 16.44 | 22.58 |
| | 16 | 05 21 | 05 45 | 06 06 | 12 08 29 | 18 11 | 18 32 | 18 56 | 11.29 | 17.40 | 23.55 |
| | 17 | 05 20 | 05 44 | 06 06 | 12 08 11 | 18 11 | 18 32 | 18 56 | 12.25 | 18.37 | |
| | 18 | 05 20 | 05 44 | 06 06 | 12 07 54 | 18 10 | 18 32 | 18 56 | 13.20 | 19.31 | 0.51 |
| | 19 | 05 20 | 05 44 | 06 05 | 12 07 36 | 18 10 | 18 32 | 18 56 | 14.12 | 20.22 | 1.45 |
| | 20 | 05 19 | 05 43 | 06 05 | 12 07 18 | 18 10 | 18 31 | 18 55 | 15.00 | 21.10 | 2.35 |
| | 21 | 05 19 | 05 43 | 06 05 | 12 07 01 | 18 09 | 18 31 | 18 55 | 15.45 | 21.55 | 3.22 |
| | 22 | 05 19 | 05 43 | 06 04 | 12 06 43 | 18 09 | 18 31 | 18 55 | 16.28 | 22.36 | 4.06 |
| | 23 | 05 18 | 05 42 | 06 04 | 12 06 25 | 18 09 | 18 30 | 18 54 | 17.08 | 23.16 | 4.47 |
| | 24 | 05 18 | 05 42 | 06 04 | 12 06 06 | 18 08 | 18 30 | 18 54 | 17.47 | 23.55 | 5.27 |
| | 25 | 05 18 | 05 42 | 06 03 | 12 05 48 | 18 08 | 18 30 | 18 54 | 18.26 | | 6.06 |
| | 26 | 05 18 | 05 42 | 06 03 | 12 05 30 | 18 08 | 18 29 | 18 53 | 19.06 | 0.35 | 6.45 |
| | 27 | 05 17 | 05 41 | 06 03 | 12 05 12 | 18 08 | 18 29 | 18 53 | 19.47 | 1.15 | 7.25 |
| | 28 | 05 17 | 05 41 | 06 03 | 12 04 54 | 18 07 | 18 29 | 18 53 | 20.32 | 1.58 | 8.08 |
| | 29 | 05 17 | 05 41 | 06 02 | 12 04 36 | 18 07 | 18 29 | 18 53 | 21.21 | 2.43 | 8.55 |
| | 30 | 05 16 | 05 40 | 06 02 | 12 04 18 | 18 07 | 18 28 | 18 52 | 22.13 | 3.32 | 9.45 |
| | 31 | 05 16 | 05 40 | 06 02 | 12 04 00 | 18 06 | 18 28 | 18 52 | 23.09 | 4.26 | 10.39 |
| Apr | 01 | 05 16 | 05 40 | 06 01 | 12 03 42 | 18 06 | 18 28 | 18 52 | | 5.22 | 11.37 |
| | 02 | 05 15 | 05 39 | 06 01 | 12 03 24 | 18 06 | 18 27 | 18 52 | 0.08 | 6.21 | 12.36 |
| | 03 | 05 15 | 05 39 | 06 01 | 12 03 07 | 18 05 | 18 27 | 18 51 | 1.07 | 7.20 | 13.34 |
| | 04 | 05 15 | 05 39 | 06 00 | 12 02 49 | 18 05 | 18 27 | 18 51 | 2.05 | 8.17 | 14.31 |
| | 05 | 05 14 | 05 38 | 06 00 | 12 02 32 | 18 05 | 18 27 | 18 51 | 3.00 | 9.12 | 15.25 |
| | 06 | 05 14 | 05 38 | 06 00 | 12 02 15 | 18 05 | 18 26 | 18 51 | 3.53 | 10.04 | 16.17 |
| | 07 | 05 14 | 05 38 | 06 00 | 12 01 59 | 18 04 | 18 26 | 18 50 | 4.45 | 10.56 | 17.08 |
| | 08 | 05 13 | 05 38 | 05 59 | 12 01 42 | 18 04 | 18 26 | 18 50 | 5.36 | 11.47 | 17.59 |
| | 09 | 05 13 | 05 37 | 05 59 | 12 01 26 | 18 04 | 18 26 | 18 50 | 6.27 | 12.39 | 18.52 |
| | 10 | 05 13 | 05 37 | 05 59 | 12 01 10 | 18 04 | 18 25 | 18 50 | 7.21 | 13.33 | 19.47 |
| | 11 | 05 12 | 05 37 | 05 59 | 12 00 54 | 18 03 | 18 25 | 18 49 | 8.17 | 14.29 | 20.44 |
| | 12 | 05 12 | 05 36 | 05 58 | 12 00 39 | 18 03 | 18 25 | 18 49 | 9.15 | 15.27 | 21.42 |
| | 13 | 05 12 | 05 36 | 05 58 | 12 00 24 | 18 03 | 18 25 | 18 49 | 10.14 | 16.26 | 22.41 |
| | 14 | 05 12 | 05 36 | 05 58 | 12 00 09 | 18 03 | 18 24 | 18 49 | 11.11 | 17.23 | 23.37 |
| | 15 | 05 11 | 05 36 | 05 58 | 11 59 55 | 18 02 | 18 24 | 18 49 | 12.06 | 18.17 | |
| | 16 | 05 11 | 05 35 | 05 57 | 11 59 41 | 18 02 | 18 24 | 18 48 | 12.56 | 19.06 | 0.30 |
| | 17 | 05 11 | 05 35 | 05 57 | 11 59 27 | 18 02 | 18 24 | 18 48 | 13.43 | 19.52 | 1.19 |
| | 18 | 05 10 | 05 35 | 05 57 | 11 59 14 | 18 02 | 18 24 | 18 48 | 14.26 | 20.35 | 2.04 |
| | 19 | 05 10 | 05 35 | 05 57 | 11 59 01 | 18 01 | 18 23 | 18 48 | 15.07 | 21.15 | 2.46 |
| | 20 | 05 10 | 05 34 | 05 56 | 11 58 48 | 18 01 | 18 23 | 18 48 | 15.46 | 21.54 | 3.26 |
| | 21 | 05 10 | 05 34 | 05 56 | 11 58 36 | 18 01 | 18 23 | 18 48 | 16.25 | 22.33 | 4.05 |
| | 22 | 05 09 | 05 34 | 05 56 | 11 58 25 | 18 01 | 18 23 | 18 48 | 17.04 | 23.13 | 4.44 |
| | 23 | 05 09 | 05 34 | 05 56 | 11 58 13 | 18 01 | 18 23 | 18 47 | 17.46 | 23.55 | 5.24 |
| | 24 | 05 09 | 05 33 | 05 56 | 11 58 03 | 18 00 | 18 23 | 18 47 | 18.30 | | 6.06 |
| | 25 | 05 09 | 05 33 | 05 55 | 11 57 52 | 18 00 | 18 23 | 18 47 | 19.17 | 0.41 | 6.52 |
| | 26 | 05 08 | 05 33 | 05 55 | 11 57 43 | 18 00 | 18 22 | 18 47 | 20.09 | 1.29 | 7.41 |
| | 27 | 05 08 | 05 33 | 05 55 | 11 57 33 | 18 00 | 18 22 | 18 47 | 21.05 | 2.22 | 8.35 |
| | 28 | 05 08 | 05 33 | 05 55 | 11 57 25 | 18 00 | 18 22 | 18 47 | 22.02 | 3.18 | 9.31 |
| | 29 | 05 08 | 05 33 | 05 55 | 11 57 16 | 18 00 | 18 22 | 18 47 | 23.01 | 4.16 | 10.30 |
| | 30 | 05 07 | 05 32 | 05 55 | 11 57 09 | 18 00 | 18 22 | 18 47 | 23.58 | 5.14 | 11.27 |
| May | 01 | 05 07 | 05 32 | 05 55 | 11 57 02 | 18 00 | 18 22 | 18 47 | | 6.10 | 12.23 |
| | 02 | 05 07 | 05 32 | 05 54 | 11 56 55 | 17 59 | 18 22 | 18 47 | 0.52 | 7.04 | 13.17 |
| | 03 | 05 07 | 05 32 | 05 54 | 11 56 49 | 17 59 | 18 22 | 18 47 | 1.44 | 7.55 | 14.07 |
| | 04 | 05 07 | 05 32 | 05 54 | 11 56 44 | 17 59 | 18 22 | 18 47 | 2.34 | 8.45 | 14.57 |
| | 05 | 05 07 | 05 32 | 05 54 | 11 56 39 | 17 59 | 18 22 | 18 47 | 3.24 | 9.34 | 15.46 |
| | 06 | 05 06 | 05 32 | 05 54 | 11 56 35 | 17 59 | 18 22 | 18 47 | 4.13 | 10.25 | 16.37 |
| | 07 | 05 06 | 05 31 | 05 54 | 11 56 31 | 17 59 | 18 22 | 18 47 | 5.05 | 11.17 | 17.30 |
| | 08 | 05 06 | 05 31 | 05 54 | 11 56 28 | 17 59 | 18 22 | 18 47 | 5.60 | 12.12 | 18.26 |
| | 09 | 05 06 | 05 31 | 05 54 | 11 56 25 | 17 59 | 18 22 | 18 47 | 6.58 | 13.10 | 19.25 |
| | 10 | 05 06 | 05 31 | 05 54 | 11 56 24 | 17 59 | 18 22 | 18 47 | 7.57 | 14.10 | 20.25 |
| | 11 | 05 06 | 05 31 | 05 54 | 11 56 22 | 17 59 | 18 22 | 18 47 | 8.57 | 15.09 | 21.24 |
| | 12 | 05 06 | 05 31 | 05 54 | 11 56 21 | 17 59 | 18 22 | 18 47 | 9.54 | 16.06 | 22.20 |
| | 13 | 05 06 | 05 31 | 05 54 | 11 56 21 | 17 59 | 18 22 | 18 47 | 10.48 | 16.59 | 23.12 |
| | 14 | 05 06 | 05 31 | 05 54 | 11 56 21 | 17 59 | 18 22 | 18 47 | 11.37 | 17.47 | 23.59 |
| | 15 | 05 06 | 05 31 | 05 54 | 11 56 22 | 17 59 | 18 22 | 18 47 | 12.22 | 18.31 | |
| | 16 | 05 06 | 05 31 | 05 54 | 11 56 23 | 17 59 | 18 22 | 18 47 | 13.04 | 19.13 | 0.42 |
| | 17 | 05 05 | 05 31 | 05 54 | 11 56 25 | 17 59 | 18 22 | 18 47 | 13.43 | 19.52 | 1.23 |
| | 18 | 05 05 | 05 31 | 05 54 | 11 56 28 | 17 59 | 18 22 | 18 48 | 14.22 | 20.31 | 2.02 |
| | 19 | 05 05 | 05 31 | 05 54 | 11 56 31 | 17 59 | 18 22 | 18 48 | 15.02 | 21.10 | 2.41 |
| | 20 | 05 05 | 05 31 | 05 54 | 11 56 34 | 17 59 | 18 22 | 18 48 | 15.42 | 21.51 | 3.21 |
| | 21 | 05 05 | 05 31 | 05 54 | 11 56 38 | 17 59 | 18 22 | 18 48 | 16.25 | 22.35 | 4.02 |
| | 22 | 05 05 | 05 31 | 05 54 | 11 56 43 | 17 59 | 18 22 | 18 48 | 17.12 | 23.22 | 4.47 |
| | 23 | 05 05 | 05 31 | 05 54 | 11 56 48 | 17 59 | 18 22 | 18 48 | 18.03 | | 5.36 |
| | 24 | 05 05 | 05 31 | 05 54 | 11 56 54 | 18 00 | 18 23 | 18 48 | 18.58 | 0.16 | 6.29 |
| | 25 | 05 05 | 05 31 | 05 54 | 11 57 00 | 18 00 | 18 23 | 18 49 | 19.56 | 1.11 | 7.25 |

CREPUSCOLI, TRANSITI, SORGERE E TRAMONTARE 2024 (Lat = 0 Lon = 0)

| | | Crepuscolo | | S O L E | | | Crepuscolo | | L U N A | | | |
|------|----|------------|-------|---------|---------|----------|------------|-------|---------|---------|-------|---|
| 2024 | | Naut. | Civil | Sorge | Culmina | Tram | Civil | Naut. | Sorge | Culmina | Tram | |
| | | h | m | h | m | s | h | m | h | m | h | m |
| May | 26 | 05 06 | 05 31 | 05 54 | 11 57 | 06 18 00 | 18 23 | 18 49 | 20.55 | 2.10 | 8.24 | |
| | 27 | 05 06 | 05 31 | 05 55 | 11 57 | 13 18 00 | 18 23 | 18 49 | 21.53 | 3.09 | 9.23 | |
| | 28 | 05 06 | 05 32 | 05 55 | 11 57 | 21 18 00 | 18 23 | 18 49 | 22.48 | 4.06 | 10.19 | |
| | 29 | 05 06 | 05 32 | 05 55 | 11 57 | 29 18 00 | 18 23 | 18 49 | 23.40 | 5.00 | 11.13 | |
| | 30 | 05 06 | 05 32 | 05 55 | 11 57 | 37 18 00 | 18 24 | 18 49 | | 5.52 | 12.04 | |
| Jun | 01 | 05 06 | 05 32 | 05 55 | 11 57 | 55 18 01 | 18 24 | 18 50 | 1.18 | 7.29 | 13.40 | |
| | 02 | 05 06 | 05 32 | 05 55 | 11 58 | 05 18 01 | 18 24 | 18 50 | 2.06 | 8.17 | 14.29 | |
| | 03 | 05 06 | 05 32 | 05 56 | 11 58 | 15 18 01 | 18 24 | 18 50 | 2.56 | 9.07 | 15.19 | |
| | 04 | 05 06 | 05 32 | 05 56 | 11 58 | 26 18 01 | 18 24 | 18 51 | 3.48 | 9.59 | 16.13 | |
| | 05 | 05 06 | 05 33 | 05 56 | 11 58 | 36 18 01 | 18 25 | 18 51 | 4.43 | 10.55 | 17.10 | |
| | 06 | 05 07 | 05 33 | 05 56 | 11 58 | 47 18 01 | 18 25 | 18 51 | 5.41 | 11.54 | 18.09 | |
| | 07 | 05 07 | 05 33 | 05 56 | 11 58 | 59 18 02 | 18 25 | 18 51 | 6.41 | 12.54 | 19.09 | |
| | 08 | 05 07 | 05 33 | 05 56 | 11 59 | 10 18 02 | 18 25 | 18 51 | 7.40 | 13.52 | 20.07 | |
| | 09 | 05 07 | 05 33 | 05 57 | 11 59 | 22 18 02 | 18 26 | 18 52 | 8.36 | 14.48 | 21.01 | |
| | 10 | 05 07 | 05 33 | 05 57 | 11 59 | 34 18 02 | 18 26 | 18 52 | 9.28 | 15.38 | 21.51 | |
| | 11 | 05 07 | 05 34 | 05 57 | 11 59 | 47 18 02 | 18 26 | 18 52 | 10.15 | 16.25 | 22.36 | |
| | 12 | 05 08 | 05 34 | 05 57 | 11 59 | 59 18 03 | 18 26 | 18 52 | 10.59 | 17.08 | 23.19 | |
| | 13 | 05 08 | 05 34 | 05 58 | 12 00 | 12 18 03 | 18 26 | 18 53 | 11.40 | 17.48 | 23.58 | |
| | 14 | 05 08 | 05 34 | 05 58 | 12 00 | 25 18 03 | 18 27 | 18 53 | 12.19 | 18.27 | | |
| | 15 | 05 08 | 05 34 | 05 58 | 12 00 | 37 18 03 | 18 27 | 18 53 | 12.58 | 19.06 | 0.37 | |
| | 16 | 05 08 | 05 35 | 05 58 | 12 00 | 50 18 04 | 18 27 | 18 53 | 13.37 | 19.46 | 1.16 | |
| | 17 | 05 09 | 05 35 | 05 58 | 12 01 | 03 18 04 | 18 27 | 18 53 | 14.19 | 20.29 | 1.57 | |
| | 18 | 05 09 | 05 35 | 05 59 | 12 01 | 16 18 04 | 18 27 | 18 54 | 15.04 | 21.14 | 2.40 | |
| | 19 | 05 09 | 05 35 | 05 59 | 12 01 | 29 18 04 | 18 28 | 18 54 | 15.54 | 22.04 | 3.27 | |
| | 20 | 05 09 | 05 35 | 05 59 | 12 01 | 42 18 04 | 18 28 | 18 54 | 16.47 | 22.59 | 4.18 | |
| | 21 | 05 09 | 05 36 | 05 59 | 12 01 | 55 18 05 | 18 28 | 18 54 | 17.45 | 23.57 | 5.14 | |
| | 22 | 05 10 | 05 36 | 05 59 | 12 02 | 08 18 05 | 18 28 | 18 55 | 18.46 | | 6.13 | |
| | 23 | 05 10 | 05 36 | 06 00 | 12 02 | 21 18 05 | 18 29 | 18 55 | 19.45 | 0.60 | 7.14 | |
| | 24 | 05 10 | 05 36 | 06 00 | 12 02 | 34 18 05 | 18 29 | 18 55 | 20.43 | 1.59 | 8.13 | |
| | 25 | 05 10 | 05 37 | 06 00 | 12 02 | 47 18 05 | 18 29 | 18 55 | 21.37 | 2.56 | 9.08 | |
| | 26 | 05 11 | 05 37 | 06 00 | 12 02 | 59 18 06 | 18 29 | 18 55 | 22.28 | 3.49 | 10.01 | |
| | 27 | 05 11 | 05 37 | 06 00 | 12 03 | 11 18 06 | 18 29 | 18 56 | 23.16 | 4.39 | 10.50 | |
| | 28 | 05 11 | 05 37 | 06 01 | 12 03 | 24 18 06 | 18 30 | 18 56 | | 5.27 | 11.38 | |
| | 29 | 05 11 | 05 37 | 06 01 | 12 03 | 36 18 06 | 18 30 | 18 56 | 0.04 | 6.14 | 12.26 | |
| | 30 | 05 11 | 05 38 | 06 01 | 12 03 | 48 18 06 | 18 30 | 18 56 | 0.52 | 7.03 | 13.15 | |
| Jul | 01 | 05 12 | 05 38 | 06 01 | 12 03 | 59 18 07 | 18 30 | 18 56 | 1.42 | 7.53 | 14.06 | |
| | 02 | 05 12 | 05 38 | 06 01 | 12 04 | 10 18 07 | 18 30 | 18 56 | 2.35 | 8.47 | 15.00 | |
| | 03 | 05 12 | 05 38 | 06 02 | 12 04 | 22 18 07 | 18 30 | 18 57 | 3.30 | 9.43 | 15.57 | |
| | 04 | 05 12 | 05 38 | 06 02 | 12 04 | 32 18 07 | 18 31 | 18 57 | 4.29 | 10.42 | 16.56 | |
| | 05 | 05 13 | 05 39 | 06 02 | 12 04 | 43 18 07 | 18 31 | 18 57 | 5.28 | 11.40 | 17.55 | |
| | 06 | 05 13 | 05 39 | 06 02 | 12 04 | 53 18 08 | 18 31 | 18 57 | 6.25 | 12.37 | 18.51 | |
| | 07 | 05 13 | 05 39 | 06 02 | 12 05 | 02 18 08 | 18 31 | 18 57 | 7.18 | 13.29 | 19.42 | |
| | 08 | 05 13 | 05 39 | 06 03 | 12 05 | 12 18 08 | 18 31 | 18 57 | 8.08 | 14.18 | 20.30 | |
| | 09 | 05 13 | 05 39 | 06 03 | 12 05 | 21 18 08 | 18 31 | 18 57 | 8.53 | 15.02 | 21.13 | |
| | 10 | 05 14 | 05 40 | 06 03 | 12 05 | 29 18 08 | 18 31 | 18 57 | 9.35 | 15.44 | 21.54 | |
| | 11 | 05 14 | 05 40 | 06 03 | 12 05 | 37 18 08 | 18 32 | 18 57 | 10.15 | 16.24 | 22.34 | |
| | 12 | 05 14 | 05 40 | 06 03 | 12 05 | 44 18 08 | 18 32 | 18 58 | 10.54 | 17.02 | 23.12 | |
| | 13 | 05 14 | 05 40 | 06 03 | 12 05 | 51 18 09 | 18 32 | 18 58 | 11.33 | 17.41 | 23.52 | |
| | 14 | 05 14 | 05 40 | 06 03 | 12 05 | 58 18 09 | 18 32 | 18 58 | 12.13 | 18.22 | | |
| | 15 | 05 14 | 05 40 | 06 03 | 12 06 | 04 18 09 | 18 32 | 18 58 | 12.56 | 19.06 | 0.33 | |
| | 16 | 05 15 | 05 40 | 06 04 | 12 06 | 09 18 09 | 18 32 | 18 58 | 13.43 | 19.54 | 1.18 | |
| | 17 | 05 15 | 05 40 | 06 04 | 12 06 | 14 18 09 | 18 32 | 18 58 | 14.35 | 20.46 | 2.07 | |
| | 18 | 05 15 | 05 41 | 06 04 | 12 06 | 19 18 09 | 18 32 | 18 58 | 15.31 | 21.43 | 3.00 | |
| | 19 | 05 15 | 05 41 | 06 04 | 12 06 | 22 18 09 | 18 32 | 18 58 | 16.30 | 22.42 | 3.58 | |
| | 20 | 05 15 | 05 41 | 06 04 | 12 06 | 26 18 09 | 18 32 | 18 58 | 17.31 | 23.43 | 4.59 | |
| | 21 | 05 15 | 05 41 | 06 04 | 12 06 | 28 18 09 | 18 32 | 18 58 | 18.31 | | 5.59 | |
| | 22 | 05 15 | 05 41 | 06 04 | 12 06 | 30 18 09 | 18 32 | 18 58 | 19.28 | 0.45 | 6.58 | |
| | 23 | 05 15 | 05 41 | 06 04 | 12 06 | 32 18 09 | 18 32 | 18 58 | 20.21 | 1.41 | 7.53 | |
| | 24 | 05 15 | 05 41 | 06 04 | 12 06 | 33 18 09 | 18 32 | 18 58 | 21.12 | 2.33 | 8.45 | |
| | 25 | 05 16 | 05 41 | 06 04 | 12 06 | 33 18 09 | 18 32 | 18 57 | 22.01 | 3.23 | 9.35 | |
| | 26 | 05 16 | 05 41 | 06 04 | 12 06 | 33 18 09 | 18 32 | 18 57 | 22.49 | 4.12 | 10.23 | |
| | 27 | 05 16 | 05 41 | 06 04 | 12 06 | 32 18 09 | 18 32 | 18 57 | 23.39 | 5.00 | 11.12 | |
| | 28 | 05 16 | 05 41 | 06 04 | 12 06 | 31 18 09 | 18 32 | 18 57 | | 5.50 | 12.03 | |
| | 29 | 05 16 | 05 41 | 06 04 | 12 06 | 29 18 09 | 18 32 | 18 57 | 0.31 | 6.43 | 12.56 | |
| | 30 | 05 16 | 05 41 | 06 04 | 12 06 | 26 18 09 | 18 32 | 18 57 | 1.25 | 7.38 | 13.52 | |
| | 31 | 05 16 | 05 41 | 06 04 | 12 06 | 23 18 09 | 18 32 | 18 57 | 2.22 | 8.35 | 14.49 | |
| Aug | 01 | 05 16 | 05 41 | 06 04 | 12 06 | 19 18 09 | 18 32 | 18 57 | 3.20 | 9.33 | 15.47 | |
| | 02 | 05 16 | 05 41 | 06 04 | 12 06 | 15 18 09 | 18 31 | 18 57 | 4.17 | 10.29 | 16.43 | |
| | 03 | 05 16 | 05 41 | 06 04 | 12 06 | 10 18 09 | 18 31 | 18 56 | 5.11 | 11.23 | 17.36 | |
| | 04 | 05 16 | 05 41 | 06 04 | 12 06 | 04 18 09 | 18 31 | 18 56 | 6.02 | 12.12 | 18.24 | |
| | 05 | 05 16 | 05 41 | 06 03 | 12 05 | 58 18 08 | 18 31 | 18 56 | 6.48 | 12.58 | 19.09 | |
| | 06 | 05 16 | 05 41 | 06 03 | 12 05 | 51 18 08 | 18 31 | 18 56 | 7.31 | 13.40 | 19.51 | |
| | 07 | 05 16 | 05 41 | 06 03 | 12 05 | 44 18 08 | 18 31 | 18 56 | 8.12 | 14.21 | 20.31 | |

CREPUSCOLI, TRANSITI, SORGERE E TRAMONTARE 2024 (Lat = 0 Lon = 0)

| | | Crepuscolo | | S O L E | | | Crepuscolo | | L U N A | | |
|------|----|------------|-------|---------|----------|-------|------------|-------|---------|---------|-------|
| 2024 | | Naut. | Civil | Sorge | Culmina | Tram | Civil | Naut. | Sorge | Culmina | Tram |
| | | h m | h m | h m | h m s | h m | h m | h m | h m | h m | h m |
| Aug | 08 | 05 16 | 05 41 | 06 03 | 12 05 36 | 18 08 | 18 31 | 18 55 | 8.51 | 14.60 | 21.09 |
| | 09 | 05 16 | 05 41 | 06 03 | 12 05 27 | 18 08 | 18 30 | 18 55 | 9.30 | 15.38 | 21.48 |
| | 10 | 05 16 | 05 40 | 06 03 | 12 05 18 | 18 08 | 18 30 | 18 55 | 10.09 | 16.18 | 22.29 |
| | 11 | 05 15 | 05 40 | 06 03 | 12 05 09 | 18 08 | 18 30 | 18 55 | 10.51 | 17.00 | 23.11 |
| | 12 | 05 15 | 05 40 | 06 03 | 12 04 58 | 18 07 | 18 30 | 18 55 | 11.35 | 17.45 | 23.58 |
| | 13 | 05 15 | 05 40 | 06 02 | 12 04 47 | 18 07 | 18 30 | 18 54 | 12.24 | 18.34 | |
| | 14 | 05 15 | 05 40 | 06 02 | 12 04 36 | 18 07 | 18 29 | 18 54 | 13.17 | 19.28 | 0.48 |
| | 15 | 05 15 | 05 40 | 06 02 | 12 04 24 | 18 07 | 18 29 | 18 54 | 14.14 | 20.26 | 1.43 |
| | 16 | 05 15 | 05 40 | 06 02 | 12 04 12 | 18 07 | 18 29 | 18 53 | 15.14 | 21.26 | 2.41 |
| | 17 | 05 15 | 05 39 | 06 02 | 12 03 58 | 18 06 | 18 29 | 18 53 | 16.14 | 22.26 | 3.42 |
| | 18 | 05 15 | 05 39 | 06 01 | 12 03 45 | 18 06 | 18 28 | 18 53 | 17.13 | 23.24 | 4.41 |
| | 19 | 05 14 | 05 39 | 06 01 | 12 03 31 | 18 06 | 18 28 | 18 53 | 18.08 | | 5.39 |
| | 20 | 05 14 | 05 39 | 06 01 | 12 03 16 | 18 06 | 18 28 | 18 52 | 19.02 | 0.21 | 6.33 |
| | 21 | 05 14 | 05 39 | 06 01 | 12 03 01 | 18 05 | 18 27 | 18 52 | 19.53 | 1.13 | 7.25 |
| | 22 | 05 14 | 05 38 | 06 00 | 12 02 46 | 18 05 | 18 27 | 18 52 | 20.43 | 2.04 | 8.16 |
| | 23 | 05 14 | 05 38 | 06 00 | 12 02 30 | 18 05 | 18 27 | 18 51 | 21.33 | 2.54 | 9.06 |
| | 24 | 05 13 | 05 38 | 06 00 | 12 02 14 | 18 05 | 18 27 | 18 51 | 22.26 | 3.45 | 9.57 |
| | 25 | 05 13 | 05 38 | 06 00 | 12 01 57 | 18 04 | 18 26 | 18 51 | 23.20 | 4.38 | 10.51 |
| | 26 | 05 13 | 05 37 | 05 59 | 12 01 40 | 18 04 | 18 26 | 18 50 | | 5.33 | 11.47 |
| | 27 | 05 13 | 05 37 | 05 59 | 12 01 23 | 18 04 | 18 26 | 18 50 | 0.17 | 6.30 | 12.44 |
| | 28 | 05 12 | 05 37 | 05 59 | 12 01 05 | 18 03 | 18 25 | 18 50 | 1.15 | 7.28 | 13.42 |
| | 29 | 05 12 | 05 37 | 05 58 | 12 00 47 | 18 03 | 18 25 | 18 49 | 2.12 | 8.25 | 14.38 |
| | 30 | 05 12 | 05 36 | 05 58 | 12 00 28 | 18 03 | 18 25 | 18 49 | 3.07 | 9.19 | 15.32 |
| | 31 | 05 12 | 05 36 | 05 58 | 12 00 10 | 18 03 | 18 24 | 18 49 | 3.58 | 10.09 | 16.21 |
| Sep | 01 | 05 11 | 05 36 | 05 57 | 11 59 51 | 18 02 | 18 24 | 18 48 | 4.45 | 10.55 | 17.07 |
| | 02 | 05 11 | 05 35 | 05 57 | 11 59 31 | 18 02 | 18 24 | 18 48 | 5.29 | 11.39 | 17.49 |
| | 03 | 05 11 | 05 35 | 05 57 | 11 59 12 | 18 02 | 18 23 | 18 47 | 6.10 | 12.19 | 18.29 |
| | 04 | 05 11 | 05 35 | 05 56 | 11 58 52 | 18 01 | 18 23 | 18 47 | 6.49 | 12.58 | 19.08 |
| | 05 | 05 10 | 05 34 | 05 56 | 11 58 32 | 18 01 | 18 23 | 18 47 | 7.28 | 13.37 | 19.47 |
| | 06 | 05 10 | 05 34 | 05 56 | 11 58 11 | 18 01 | 18 22 | 18 46 | 8.07 | 14.16 | 20.26 |
| | 07 | 05 10 | 05 34 | 05 55 | 11 57 51 | 18 00 | 18 22 | 18 46 | 8.48 | 14.57 | 21.08 |
| | 08 | 05 09 | 05 33 | 05 55 | 11 57 30 | 18 00 | 18 22 | 18 46 | 9.31 | 15.40 | 21.52 |
| | 09 | 05 09 | 05 33 | 05 55 | 11 57 09 | 18 00 | 18 21 | 18 45 | 10.17 | 16.27 | 22.40 |
| | 10 | 05 09 | 05 33 | 05 54 | 11 56 48 | 17 59 | 18 21 | 18 45 | 11.07 | 17.18 | 23.32 |
| | 11 | 05 08 | 05 32 | 05 54 | 11 56 27 | 17 59 | 18 20 | 18 44 | 12.01 | 18.13 | |
| | 12 | 05 08 | 05 32 | 05 54 | 11 56 06 | 17 58 | 18 20 | 18 44 | 12.58 | 19.10 | 0.28 |
| | 13 | 05 08 | 05 32 | 05 53 | 11 55 45 | 17 58 | 18 20 | 18 44 | 13.57 | 20.09 | 1.26 |
| | 14 | 05 07 | 05 31 | 05 53 | 11 55 23 | 17 58 | 18 19 | 18 43 | 14.55 | 21.07 | 2.24 |
| | 15 | 05 07 | 05 31 | 05 53 | 11 55 02 | 17 57 | 18 19 | 18 43 | 15.52 | 22.03 | 3.22 |
| | 16 | 05 07 | 05 31 | 05 52 | 11 54 40 | 17 57 | 18 19 | 18 43 | 16.46 | 22.56 | 4.17 |
| | 17 | 05 06 | 05 30 | 05 52 | 11 54 19 | 17 57 | 18 18 | 18 42 | 17.38 | 23.48 | 5.10 |
| | 18 | 05 06 | 05 30 | 05 52 | 11 53 57 | 17 56 | 18 18 | 18 42 | 18.30 | | 6.02 |
| | 19 | 05 06 | 05 30 | 05 51 | 11 53 36 | 17 56 | 18 18 | 18 42 | 19.21 | 0.41 | 6.53 |
| | 20 | 05 05 | 05 29 | 05 51 | 11 53 14 | 17 56 | 18 17 | 18 41 | 20.15 | 1.33 | 7.46 |
| | 21 | 05 05 | 05 29 | 05 51 | 11 52 53 | 17 55 | 18 17 | 18 41 | 21.11 | 2.27 | 8.40 |
| | 22 | 05 05 | 05 29 | 05 50 | 11 52 32 | 17 55 | 18 16 | 18 40 | 22.09 | 3.24 | 9.37 |
| | 23 | 05 04 | 05 28 | 05 50 | 11 52 11 | 17 55 | 18 16 | 18 40 | 23.08 | 4.22 | 10.36 |
| | 24 | 05 04 | 05 28 | 05 49 | 11 51 50 | 17 54 | 18 16 | 18 40 | | 5.21 | 11.36 |
| | 25 | 05 04 | 05 28 | 05 49 | 11 51 29 | 17 54 | 18 15 | 18 39 | 0.07 | 6.20 | 12.34 |
| | 26 | 05 03 | 05 27 | 05 49 | 11 51 08 | 17 53 | 18 15 | 18 39 | 1.03 | 7.15 | 13.28 |
| | 27 | 05 03 | 05 27 | 05 48 | 11 50 48 | 17 53 | 18 15 | 18 39 | 1.55 | 8.07 | 14.19 |
| | 28 | 05 03 | 05 27 | 05 48 | 11 50 28 | 17 53 | 18 14 | 18 38 | 2.44 | 8.54 | 15.05 |
| | 29 | 05 02 | 05 26 | 05 48 | 11 50 08 | 17 52 | 18 14 | 18 38 | 3.28 | 9.38 | 15.48 |
| | 30 | 05 02 | 05 26 | 05 47 | 11 49 49 | 17 52 | 18 14 | 18 38 | 4.10 | 10.19 | 16.29 |
| Oct | 01 | 05 01 | 05 26 | 05 47 | 11 49 29 | 17 52 | 18 13 | 18 37 | 4.49 | 10.58 | 17.08 |
| | 02 | 05 01 | 05 25 | 05 47 | 11 49 10 | 17 52 | 18 13 | 18 37 | 5.28 | 11.37 | 17.47 |
| | 03 | 05 01 | 05 25 | 05 47 | 11 48 52 | 17 51 | 18 13 | 18 37 | 6.07 | 12.16 | 18.26 |
| | 04 | 05 00 | 05 25 | 05 46 | 11 48 33 | 17 51 | 18 13 | 18 37 | 6.47 | 12.56 | 19.07 |
| | 05 | 05 00 | 05 24 | 05 46 | 11 48 15 | 17 51 | 18 12 | 18 36 | 7.29 | 13.39 | 19.50 |
| | 06 | 05 00 | 05 24 | 05 46 | 11 47 58 | 17 50 | 18 12 | 18 36 | 8.14 | 14.24 | 20.36 |
| | 07 | 05 00 | 05 24 | 05 45 | 11 47 41 | 17 50 | 18 12 | 18 36 | 9.02 | 15.13 | 21.27 |
| | 08 | 04 59 | 05 23 | 05 45 | 11 47 24 | 17 50 | 18 11 | 18 36 | 9.54 | 16.06 | 22.20 |
| | 09 | 04 59 | 05 23 | 05 45 | 11 47 08 | 17 50 | 18 11 | 18 35 | 10.49 | 17.01 | 23.16 |
| | 10 | 04 59 | 05 23 | 05 44 | 11 46 52 | 17 49 | 18 11 | 18 35 | 11.46 | 17.58 | |
| | 11 | 04 58 | 05 22 | 05 44 | 11 46 36 | 17 49 | 18 11 | 18 35 | 12.42 | 18.54 | 0.13 |
| | 12 | 04 58 | 05 22 | 05 44 | 11 46 21 | 17 49 | 18 11 | 18 35 | 13.38 | 19.49 | 1.08 |
| | 13 | 04 58 | 05 22 | 05 44 | 11 46 07 | 17 49 | 18 10 | 18 35 | 14.31 | 20.42 | 2.03 |
| | 14 | 04 57 | 05 22 | 05 43 | 11 45 53 | 17 48 | 18 10 | 18 34 | 15.23 | 21.33 | 2.55 |
| | 15 | 04 57 | 05 21 | 05 43 | 11 45 40 | 17 48 | 18 10 | 18 34 | 16.13 | 22.24 | 3.46 |
| | 16 | 04 57 | 05 21 | 05 43 | 11 45 27 | 17 48 | 18 10 | 18 34 | 17.05 | 23.15 | 4.37 |
| | 17 | 04 57 | 05 21 | 05 43 | 11 45 14 | 17 48 | 18 10 | 18 34 | 17.58 | | 5.29 |
| | 18 | 04 56 | 05 21 | 05 43 | 11 45 03 | 17 47 | 18 09 | 18 34 | 18.54 | 0.10 | 6.23 |
| | 19 | 04 56 | 05 21 | 05 42 | 11 44 52 | 17 47 | 18 09 | 18 34 | 19.53 | 1.07 | 7.21 |

CREPUSCOLI, TRANSITI, SORGERE E TRAMONTARE 2024 (Lat = 0 Lon = 0)

| 2024 | Crepuscolo | | S O L E | | | | Crepuscolo | | L U N A | | |
|--------|------------|-------|---------|----------|-------|-------|------------|-------|---------|-------|--|
| | Naut. | Civil | Sorge | Culmina | Tram | Civil | Naut. | Sorge | Culmina | Tram | |
| | h m | h m | h m | h m s | h m | h m | h m | h m | h m | h m | |
| Oct 20 | 04 56 | 05 20 | 05 42 | 11 44 41 | 17 47 | 18 09 | 18 34 | 20.54 | 2.06 | 8.21 | |
| 21 | 04 56 | 05 20 | 05 42 | 11 44 32 | 17 47 | 18 09 | 18 33 | 21.55 | 3.08 | 9.23 | |
| 22 | 04 55 | 05 20 | 05 42 | 11 44 23 | 17 47 | 18 09 | 18 33 | 22.54 | 4.09 | 10.23 | |
| 23 | 04 55 | 05 20 | 05 42 | 11 44 14 | 17 47 | 18 09 | 18 33 | 23.50 | 5.07 | 11.21 | |
| 24 | 04 55 | 05 20 | 05 42 | 11 44 07 | 17 47 | 18 09 | 18 33 | | 6.02 | 12.14 | |
| 25 | 04 55 | 05 19 | 05 42 | 11 44 00 | 17 46 | 18 09 | 18 33 | 0.40 | 6.51 | 13.03 | |
| 26 | 04 55 | 05 19 | 05 41 | 11 43 54 | 17 46 | 18 08 | 18 33 | 1.26 | 7.36 | 13.47 | |
| 27 | 04 55 | 05 19 | 05 41 | 11 43 49 | 17 46 | 18 08 | 18 33 | 2.09 | 8.18 | 14.28 | |
| 28 | 04 54 | 05 19 | 05 41 | 11 43 44 | 17 46 | 18 08 | 18 33 | 2.49 | 8.58 | 15.08 | |
| 29 | 04 54 | 05 19 | 05 41 | 11 43 40 | 17 46 | 18 08 | 18 33 | 3.28 | 9.37 | 15.46 | |
| 30 | 04 54 | 05 19 | 05 41 | 11 43 37 | 17 46 | 18 08 | 18 33 | 4.06 | 10.15 | 16.25 | |
| 31 | 04 54 | 05 19 | 05 41 | 11 43 35 | 17 46 | 18 08 | 18 33 | 4.46 | 10.55 | 17.05 | |
| Nov 01 | 04 54 | 05 19 | 05 41 | 11 43 33 | 17 46 | 18 08 | 18 33 | 5.27 | 11.37 | 17.48 | |
| 02 | 04 54 | 05 19 | 05 41 | 11 43 33 | 17 46 | 18 08 | 18 33 | 6.12 | 12.22 | 18.34 | |
| 03 | 04 54 | 05 19 | 05 41 | 11 43 33 | 17 46 | 18 08 | 18 33 | 6.59 | 13.10 | 19.23 | |
| 04 | 04 54 | 05 19 | 05 41 | 11 43 34 | 17 46 | 18 09 | 18 33 | 7.51 | 14.02 | 20.16 | |
| 05 | 04 54 | 05 19 | 05 41 | 11 43 36 | 17 46 | 18 09 | 18 34 | 8.45 | 14.57 | 21.11 | |
| 06 | 04 54 | 05 19 | 05 41 | 11 43 38 | 17 46 | 18 09 | 18 34 | 9.40 | 15.52 | 22.07 | |
| 07 | 04 54 | 05 19 | 05 41 | 11 43 42 | 17 46 | 18 09 | 18 34 | 10.36 | 16.48 | 23.02 | |
| 08 | 04 54 | 05 19 | 05 41 | 11 43 46 | 17 46 | 18 09 | 18 34 | 11.30 | 17.41 | 23.55 | |
| 09 | 04 54 | 05 19 | 05 41 | 11 43 51 | 17 46 | 18 09 | 18 34 | 12.23 | 18.33 | | |
| 10 | 04 54 | 05 19 | 05 41 | 11 43 57 | 17 47 | 18 09 | 18 34 | 13.13 | 19.23 | 0.46 | |
| 11 | 04 54 | 05 19 | 05 41 | 11 44 04 | 17 47 | 18 09 | 18 35 | 14.02 | 20.12 | 1.36 | |
| 12 | 04 54 | 05 19 | 05 42 | 11 44 12 | 17 47 | 18 09 | 18 35 | 14.51 | 21.01 | 2.24 | |
| 13 | 04 54 | 05 19 | 05 42 | 11 44 20 | 17 47 | 18 10 | 18 35 | 15.42 | 21.52 | 3.14 | |
| 14 | 04 54 | 05 19 | 05 42 | 11 44 29 | 17 47 | 18 10 | 18 35 | 16.35 | 22.46 | 4.06 | |
| 15 | 04 54 | 05 19 | 05 42 | 11 44 39 | 17 47 | 18 10 | 18 35 | 17.32 | 23.44 | 5.01 | |
| 16 | 04 54 | 05 19 | 05 42 | 11 44 50 | 17 47 | 18 10 | 18 36 | 18.33 | | 5.60 | |
| 17 | 04 54 | 05 20 | 05 42 | 11 45 02 | 17 48 | 18 11 | 18 36 | 19.36 | 0.48 | 7.02 | |
| 18 | 04 54 | 05 20 | 05 43 | 11 45 15 | 17 48 | 18 11 | 18 36 | 20.39 | 1.51 | 8.05 | |
| 19 | 04 54 | 05 20 | 05 43 | 11 45 28 | 17 48 | 18 11 | 18 37 | 21.38 | 2.52 | 9.07 | |
| 20 | 04 55 | 05 20 | 05 43 | 11 45 43 | 17 48 | 18 11 | 18 37 | 22.32 | 3.51 | 10.04 | |
| 21 | 04 55 | 05 20 | 05 43 | 11 45 58 | 17 49 | 18 12 | 18 37 | 23.21 | 4.43 | 10.56 | |
| 22 | 04 55 | 05 21 | 05 44 | 11 46 14 | 17 49 | 18 12 | 18 38 | | 5.31 | 11.42 | |
| 23 | 04 55 | 05 21 | 05 44 | 11 46 30 | 17 49 | 18 12 | 18 38 | 0.05 | 6.15 | 12.25 | |
| 24 | 04 55 | 05 21 | 05 44 | 11 46 48 | 17 49 | 18 13 | 18 38 | 0.47 | 6.56 | 13.06 | |
| 25 | 04 56 | 05 21 | 05 44 | 11 47 06 | 17 50 | 18 13 | 18 39 | 1.26 | 7.35 | 13.44 | |
| 26 | 04 56 | 05 22 | 05 45 | 11 47 25 | 17 50 | 18 13 | 18 39 | 2.05 | 8.14 | 14.23 | |
| 27 | 04 56 | 05 22 | 05 45 | 11 47 45 | 17 50 | 18 14 | 18 39 | 2.44 | 8.53 | 15.03 | |
| 28 | 04 56 | 05 22 | 05 45 | 11 48 06 | 17 51 | 18 14 | 18 40 | 3.24 | 9.34 | 15.45 | |
| 29 | 04 57 | 05 23 | 05 46 | 11 48 27 | 17 51 | 18 14 | 18 40 | 4.08 | 10.18 | 16.30 | |
| 30 | 04 57 | 05 23 | 05 46 | 11 48 49 | 17 52 | 18 15 | 18 41 | 4.55 | 11.06 | 17.18 | |
| Dec 01 | 04 57 | 05 23 | 05 46 | 11 49 11 | 17 52 | 18 15 | 18 41 | 5.45 | 11.57 | 18.11 | |
| 02 | 04 58 | 05 24 | 05 47 | 11 49 35 | 17 52 | 18 16 | 18 42 | 6.39 | 12.51 | 19.06 | |
| 03 | 04 58 | 05 24 | 05 47 | 11 49 58 | 17 53 | 18 16 | 18 42 | 7.36 | 13.48 | 20.02 | |
| 04 | 04 58 | 05 24 | 05 48 | 11 50 23 | 17 53 | 18 16 | 18 42 | 8.32 | 14.44 | 20.58 | |
| 05 | 04 59 | 05 25 | 05 48 | 11 50 48 | 17 54 | 18 17 | 18 43 | 9.27 | 15.38 | 21.52 | |
| 06 | 04 59 | 05 25 | 05 48 | 11 51 13 | 17 54 | 18 17 | 18 43 | 10.19 | 16.30 | 22.43 | |
| 07 | 04 59 | 05 26 | 05 49 | 11 51 39 | 17 54 | 18 18 | 18 44 | 11.09 | 17.19 | 23.32 | |
| 08 | 05 00 | 05 26 | 05 49 | 11 52 05 | 17 55 | 18 18 | 18 44 | 11.57 | 18.07 | | |
| 09 | 05 00 | 05 26 | 05 50 | 11 52 32 | 17 55 | 18 19 | 18 45 | 12.44 | 18.54 | 0.19 | |
| 10 | 05 01 | 05 27 | 05 50 | 11 53 00 | 17 56 | 18 19 | 18 45 | 13.32 | 19.43 | 1.06 | |
| 11 | 05 01 | 05 27 | 05 51 | 11 53 27 | 17 56 | 18 20 | 18 46 | 14.23 | 20.33 | 1.55 | |
| 12 | 05 02 | 05 28 | 05 51 | 11 53 55 | 17 57 | 18 20 | 18 46 | 15.16 | 21.28 | 2.47 | |
| 13 | 05 02 | 05 28 | 05 52 | 11 54 23 | 17 57 | 18 21 | 18 47 | 16.14 | 22.26 | 3.43 | |
| 14 | 05 02 | 05 29 | 05 52 | 11 54 52 | 17 58 | 18 21 | 18 47 | 17.16 | 23.28 | 4.42 | |
| 15 | 05 03 | 05 29 | 05 53 | 11 55 21 | 17 58 | 18 22 | 18 48 | 18.19 | | 5.45 | |
| 16 | 05 03 | 05 30 | 05 53 | 11 55 50 | 17 59 | 18 22 | 18 48 | 19.20 | 0.33 | 6.48 | |
| 17 | 05 04 | 05 30 | 05 54 | 11 56 19 | 17 59 | 18 23 | 18 49 | 20.18 | 1.34 | 7.48 | |
| 18 | 05 04 | 05 31 | 05 54 | 11 56 48 | 18 00 | 18 23 | 18 49 | 21.10 | 2.31 | 8.43 | |
| 19 | 05 05 | 05 31 | 05 55 | 11 57 18 | 18 00 | 18 24 | 18 50 | 21.58 | 3.22 | 9.33 | |
| 20 | 05 05 | 05 31 | 05 55 | 11 57 48 | 18 01 | 18 24 | 18 50 | 22.41 | 4.08 | 10.19 | |
| 21 | 05 06 | 05 32 | 05 56 | 11 58 17 | 18 01 | 18 25 | 18 51 | 23.22 | 4.51 | 11.01 | |
| 22 | 05 06 | 05 32 | 05 56 | 11 58 47 | 18 02 | 18 25 | 18 51 | | 5.31 | 11.41 | |
| 23 | 05 07 | 05 33 | 05 57 | 11 59 17 | 18 02 | 18 26 | 18 52 | 0.01 | 6.10 | 12.20 | |
| 24 | 05 07 | 05 33 | 05 57 | 11 59 47 | 18 03 | 18 26 | 18 52 | 0.40 | 6.49 | 12.59 | |
| 25 | 05 08 | 05 34 | 05 58 | 12 00 17 | 18 03 | 18 27 | 18 53 | 1.20 | 7.29 | 13.40 | |
| 26 | 05 08 | 05 34 | 05 58 | 12 00 46 | 18 04 | 18 27 | 18 53 | 2.02 | 8.12 | 14.23 | |
| 27 | 05 09 | 05 35 | 05 58 | 12 01 16 | 18 04 | 18 28 | 18 54 | 2.47 | 8.58 | 15.10 | |
| 28 | 05 09 | 05 35 | 05 59 | 12 01 45 | 18 05 | 18 28 | 18 54 | 3.37 | 9.48 | 16.01 | |
| 29 | 05 10 | 05 36 | 05 59 | 12 02 15 | 18 05 | 18 28 | 18 55 | 4.30 | 10.42 | 16.56 | |
| 30 | 05 10 | 05 36 | 06 00 | 12 02 44 | 18 05 | 18 29 | 18 55 | 5.26 | 11.39 | 17.53 | |
| 31 | 05 11 | 05 37 | 06 00 | 12 03 12 | 18 06 | 18 29 | 18 56 | 6.24 | 12.36 | 18.50 | |

CORREZIONE PER IL SORGERE E TRAMONTARE DEGLI ASTR

| | | LATITUDINE | | | | | | | | | | | | |
|--------------|-----|------------|------|------|------|------|------|-----|------|------|------|------|------|------|
| | | -60 | -50 | -40 | -30 | -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 |
| DECLINAZIONE | 70 | | | | | | 156 | 0 | -156 | | | | | |
| | 60 | | | | | | 111 | 0 | -111 | | | | | |
| | 50 | | | | | 143 | 48 | 0 | -48 | -143 | | | | |
| | 40 | | | | 156 | 111 | 34 | 0 | -34 | -111 | -156 | | | |
| | 30 | | | 156 | 118 | 48 | 23 | 0 | -23 | -48 | -118 | -156 | | |
| | 20 | | 143 | 111 | 49 | 31 | 15 | 0 | -15 | -31 | -49 | -111 | -143 | |
| | 10 | 111 | 49 | 34 | 24 | 15 | 7 | 0 | -7 | -15 | -24 | -34 | -49 | -111 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | -10 | -111 | -49 | -34 | -24 | -15 | -7 | 0 | 7 | 15 | 24 | 34 | 49 | 111 |
| | -20 | | -143 | -111 | -49 | -31 | -15 | 0 | 15 | 31 | 49 | 111 | 143 | |
| | -30 | | | -156 | -118 | -48 | -23 | 0 | 23 | 48 | 118 | 156 | | |
| | -40 | | | | -156 | -111 | -34 | 0 | 34 | 111 | 156 | | | |
| | -50 | | | | | -143 | -48 | 0 | 48 | 143 | | | | |
| | -60 | | | | | | -111 | 0 | 111 | | | | | |
| -70 | | | | | | -156 | 0 | 156 | | | | | | |

Tempi espressi in minuti

I valori della tabella vanno presi con il loro segno per il sorgere, col segno cambiato per il tramonto. Correggere dapprima per la differenza oraria in longitudine rispetto al meridiano di Greenwich, successivamente apportare la correzione ricavata dalla tabella in funzione della latitudine e della declinazione dell'astro. Il dato ricavato, particolarmente nel caso della Luna, è da intendersi approssimativo.

EQUAZIONE DEL TEMPO

