

KSIĘŻYC

| d | Wsch. | Kulm. | Zach. | A _w | A _z | α | δ | D | F |
|----------------------|-------|-------|-------|----------------|----------------|-------------------|----------|------|-------|
| | λ=0° | | φ=50° | | | 0 ^h UT | | | |
| CZERWIEC 2017 | | | | | | | | | |
| | h m | h m | h m | -° | +° | h m s | ° ' " | ' " | |
| 1 | 11 28 | 18 23 | 0 38 | 103 | 106 | 10 25 29 | 10 29.3 | 31.3 | 0.45 |
| 2 | 12 36 | 19 09 | 1 05 | 97 | 100 | 11 15 55 | 6 35.5 | 30.8 | 0.55 |
| 3 | 13 42 | 19 53 | 1 30 | 90 | 93 | 12 04 11 | 2 29.9 | 30.4 | 0.65 |
| 4 | 14 47 | 20 37 | 1 54 | 84 | 87 | 12 51 04 | - 1 36.5 | 30.1 | 0.74 |
| 5 | 15 50 | 21 20 | 2 18 | 77 | 81 | 13 37 17 | - 5 34.7 | 29.8 | 0.82 |
| 6 | 16 53 | 22 04 | 2 42 | 72 | 75 | 14 23 29 | - 9 16.6 | 29.6 | 0.89 |
| 7 | 17 54 | 22 49 | 3 09 | 67 | 69 | 15 10 10 | -12 34.4 | 29.5 | 0.94 |
| 8 | 18 53 | 23 35 | 3 39 | 63 | 65 | 15 57 42 | -15 20.7 | 29.4 | 0.98 |
| 9 | 19 50 | — | 4 13 | 60 | 61 | 16 46 15 | -17 28.4 | 29.4 | 1.00 |
| 10 | 20 42 | 0 22 | 4 53 | 59 | 59 | 17 35 46 | -18 51.4 | 29.4 | -1.00 |
| 11 | 21 29 | 1 10 | 5 39 | 59 | 59 | 18 26 01 | -19 25.1 | 29.5 | -0.98 |
| 12 | 22 10 | 1 58 | 6 30 | 61 | 60 | 19 16 39 | -19 06.9 | 29.6 | -0.95 |
| 13 | 22 47 | 2 47 | 7 27 | 64 | 62 | 20 07 16 | -17 56.8 | 29.8 | -0.89 |
| 14 | 23 19 | 3 35 | 8 28 | 69 | 66 | 20 57 36 | -15 56.9 | 30.0 | -0.83 |
| 15 | 23 47 | 4 22 | 9 33 | 74 | 71 | 21 47 33 | -13 11.5 | 30.3 | -0.75 |
| 16 | — | 5 09 | 10 40 | — | 77 | 22 37 14 | - 9 46.7 | 30.7 | -0.65 |
| 17 | 0 14 | 5 57 | 11 49 | 81 | 84 | 23 27 00 | - 5 49.8 | 31.1 | -0.55 |
| 18 | 0 40 | 6 45 | 13 01 | 88 | 91 | 0 17 26 | - 1 29.6 | 31.6 | -0.45 |
| 19 | 1 07 | 7 35 | 14 16 | 95 | 99 | 1 09 10 | 3 02.8 | 32.0 | -0.34 |
| 20 | 1 36 | 8 28 | 15 33 | 102 | 106 | 2 02 59 | 7 33.8 | 32.5 | -0.23 |
| 21 | 2 08 | 9 23 | 16 51 | 109 | 113 | 2 59 28 | 11 46.4 | 32.9 | -0.14 |
| 22 | 2 47 | 10 22 | 18 08 | 115 | 118 | 3 58 56 | 15 20.7 | 33.2 | -0.07 |
| 23 | 3 33 | 11 24 | 19 21 | 119 | 120 | 5 01 08 | 17 56.5 | 33.4 | -0.02 |
| 24 | 4 29 | 12 27 | 20 25 | 121 | 121 | 6 05 03 | 19 17.0 | 33.4 | -0.00 |
| 25 | 5 33 | 13 29 | 21 19 | 120 | 119 | 7 09 07 | 19 14.2 | 33.2 | 0.01 |
| 26 | 6 44 | 14 28 | 22 02 | 117 | 115 | 8 11 36 | 17 50.9 | 32.8 | 0.05 |
| 27 | 7 58 | 15 24 | 22 38 | 112 | 109 | 9 11 12 | 15 19.8 | 32.4 | 0.12 |
| 28 | 9 11 | 16 16 | 23 08 | 106 | 103 | 10 07 24 | 11 58.5 | 31.9 | 0.20 |
| 29 | 10 22 | 17 04 | 23 35 | 100 | 96 | 11 00 17 | 8 05.3 | 31.4 | 0.30 |
| 30 | 11 30 | 17 50 | 23 59 | 93 | 89 | 11 50 24 | 3 56.0 | 30.9 | 0.40 |

| | | | | | | | |
|------------------|-------|---------------------------------|--|-------|-------------------|---------|-------|
| pierwsza kwadra: | 1 VI | 12 ^h 42 ^m | | 4 VI | 0.0 ^h | Jowisz | 2°S |
| pełnia: | 9 VI | 13 ^h 10 ^m | | 10 VI | 1.1 ^h | Saturn | 3°S |
| ostatnia kwadra: | 17 VI | 11 ^h 33 ^m | | 16 VI | 12.7 ^h | Neptun | 0.7°N |
| nów: | 24 VI | 2 ^h 31 ^m | | 19 VI | 15.6 ^h | Uran | 4°N |
| | | | | 20 VI | 21.3 ^h | Wenus | 2°N |
| apogeum: | 8 VI | 22 ^h 19 ^m | | 24 VI | 8.8 ^h | Merkury | 5°N |
| perygeum: | 23 VI | 10 ^h 51 ^m | | 24 VI | 20.0 ^h | Mars | 4°N |