

KSIĘŻYC

| d | Wsch. | Kulm. | Zach. | A _w | A _z | α | δ | D | F |
|----------------------|-------|-------|-------|----------------|----------------|-------------------|----------|------|-------|
| | λ=0° | | φ=50° | | | 0 ^h UT | | | |
| KWIECIEŃ 2012 | | | | | | | | | |
| | h m | h m | h m | -° | +° | h m s | ° ' " | ' " | |
| 1 | 12 15 | 19 47 | 2 37 | 115 | 117 | 7 46 25 | 17 16.2 | 30.8 | 0.62 |
| 2 | 13 28 | 20 37 | 3 06 | 108 | 111 | 8 38 35 | 13 47.4 | 31.3 | 0.72 |
| 3 | 14 43 | 21 27 | 3 33 | 100 | 104 | 9 30 48 | 9 29.7 | 31.8 | 0.81 |
| 4 | 16 01 | 22 19 | 3 58 | 91 | 96 | 10 23 26 | 4 33.7 | 32.3 | 0.89 |
| 5 | 17 22 | 23 12 | 4 22 | 83 | 87 | 11 17 01 | -0 46.5 | 32.7 | 0.95 |
| 6 | 18 46 | — | 4 48 | 74 | 79 | 12 12 12 | -6 12.2 | 33.1 | 0.99 |
| 7 | 20 10 | 0 07 | 5 17 | 66 | 70 | 13 09 30 | -11 21.1 | 33.3 | -1.00 |
| 8 | 21 32 | 1 05 | 5 52 | 60 | 63 | 14 09 11 | -15 48.8 | 33.3 | -0.98 |
| 9 | 22 47 | 2 06 | 6 33 | 56 | 58 | 15 10 58 | -19 12.5 | 33.2 | -0.93 |
| 10 | 23 53 | 3 07 | 7 24 | 55 | 55 | 16 13 55 | -21 14.8 | 32.9 | -0.85 |
| 11 | — | 4 08 | 8 24 | 56 | 55 | 17 16 34 | -21 48.2 | 32.5 | -0.76 |
| 12 | 0 46 | 5 07 | 9 32 | 56 | 57 | 18 17 24 | -20 55.8 | 32.1 | -0.66 |
| 13 | 1 28 | 6 02 | 10 43 | 60 | 62 | 19 15 20 | -18 49.1 | 31.6 | -0.55 |
| 14 | 2 01 | 6 54 | 11 54 | 65 | 68 | 20 09 54 | -15 43.8 | 31.2 | -0.44 |
| 15 | 2 29 | 7 42 | 13 04 | 72 | 75 | 21 01 16 | -11 56.2 | 30.8 | -0.34 |
| 16 | 2 52 | 8 27 | 14 12 | 79 | 82 | 21 49 58 | -7 41.2 | 30.4 | -0.25 |
| 17 | 3 13 | 9 11 | 15 19 | 86 | 89 | 22 36 44 | -3 11.7 | 30.1 | -0.17 |
| 18 | 3 34 | 9 53 | 16 25 | 93 | 97 | 23 22 22 | 1 21.1 | 29.9 | -0.10 |
| 19 | 3 54 | 10 36 | 17 30 | 100 | 104 | 0 07 35 | 5 47.2 | 29.7 | -0.05 |
| 20 | 4 16 | 11 19 | 18 34 | 107 | 110 | 0 53 03 | 9 57.2 | 29.6 | -0.02 |
| 21 | 4 40 | 12 03 | 19 38 | 113 | 116 | 1 39 18 | 13 42.1 | 29.5 | -0.00 |
| 22 | 5 07 | 12 49 | 20 40 | 118 | 120 | 2 26 41 | 16 52.9 | 29.4 | 0.00 |
| 23 | 5 40 | 13 36 | 21 38 | 122 | 123 | 3 15 24 | 19 21.2 | 29.4 | 0.03 |
| 24 | 6 18 | 14 24 | 22 32 | 124 | 125 | 4 05 21 | 20 59.8 | 29.5 | 0.06 |
| 25 | 7 04 | 15 13 | 23 20 | 125 | 125 | 4 56 17 | 21 42.8 | 29.6 | 0.12 |
| 26 | 7 57 | 16 02 | — | 124 | — | 5 47 45 | 21 26.8 | 29.7 | 0.19 |
| 27 | 8 57 | 16 51 | 0 01 | 121 | 122 | 6 39 18 | 20 11.2 | 30.0 | 0.27 |
| 28 | 10 02 | 17 40 | 0 36 | 117 | 118 | 7 30 36 | 17 57.8 | 30.3 | 0.36 |
| 29 | 11 10 | 18 28 | 1 06 | 111 | 113 | 8 21 30 | 14 50.8 | 30.7 | 0.46 |
| 30 | 12 22 | 19 17 | 1 33 | 103 | 107 | 9 12 11 | 10 56.3 | 31.1 | 0.56 |

| | | | | | | | |
|------------------|-------|---------------------------------|--|-------|-------------------|---------|-----|
| pełnia: | 6 IV | 19 ^h 19 ^m | | 4 IV | 2.8 ^h | Mars | 9°N |
| ostatnia kwadra: | 13 IV | 10 ^h 50 ^m | | 7 IV | 13.8 ^h | Saturn | 6°N |
| nów | 21 IV | 7 ^h 19 ^m | | 16 IV | 14.7 ^h | Neptun | 6°S |
| pierwsza kwadra | 29 IV | 9 ^h 58 ^m | | 19 IV | 2.0 ^h | Merkury | 8°S |
| | | | | 19 IV | 8.2 ^h | Uran | 6°S |
| perygium: | 7 IV | 17 ^h 00 ^m | | 22 IV | 18.6 ^h | Jowisz | 2°S |
| apogeum: | 22 IV | 13 ^h 50 ^m | | 25 IV | 2.4 ^h | Wenus | 6°N |