

KSIEŻYC

| d | Wsch. | Kulm. | Zach. | A _w | A _z | α | δ | D | F |
|-----------------|-------|-------|-------|----------------|----------------|-------------------|----------|------|-------|
| | λ=0° | | φ=50° | | | 0 ^h UT | | | |
| MAJ 2021 | | | | | | | | | |
| | h m | h m | h m | -° | +° | h m s | ° ' " | ' " | |
| 1 | 0 03 | 3 54 | 7 43 | 48 | 48 | 18 20 34 | -25 27.2 | 32.6 | -0.80 |
| 2 | 1 03 | 4 55 | 8 49 | 48 | 49 | 19 23 23 | -25 17.8 | 32.1 | -0.70 |
| 3 | 1 48 | 5 52 | 10 02 | 52 | 53 | 20 23 19 | -23 34.9 | 31.6 | -0.59 |
| 4 | 2 21 | 6 45 | 11 17 | 57 | 60 | 21 19 22 | -20 35.8 | 31.1 | -0.48 |
| 5 | 2 46 | 7 34 | 12 31 | 64 | 67 | 22 11 25 | -16 39.7 | 30.7 | -0.38 |
| 6 | 3 06 | 8 19 | 13 42 | 72 | 75 | 22 59 59 | -12 04.6 | 30.3 | -0.28 |
| 7 | 3 23 | 9 01 | 14 51 | 80 | 84 | 23 45 53 | - 7 05.5 | 30.0 | -0.20 |
| 8 | 3 38 | 9 42 | 15 59 | 88 | 92 | 0 30 04 | - 1 54.9 | 29.8 | -0.13 |
| 9 | 3 53 | 10 22 | 17 06 | 96 | 101 | 1 13 28 | 3 16.3 | 29.6 | -0.07 |
| 10 | 4 08 | 11 03 | 18 13 | 104 | 109 | 1 56 56 | 8 18.1 | 29.5 | -0.03 |
| 11 | 4 26 | 11 46 | 19 20 | 112 | 116 | 2 41 16 | 13 00.4 | 29.4 | -0.01 |
| 12 | 4 46 | 12 30 | 20 28 | 119 | 122 | 3 27 06 | 17 13.2 | 29.4 | 0.00 |
| 13 | 5 10 | 13 16 | 21 34 | 124 | 128 | 4 14 54 | 20 45.5 | 29.4 | 0.01 |
| 14 | 5 41 | 14 05 | 22 36 | 129 | 131 | 5 04 49 | 23 26.8 | 29.5 | 0.04 |
| 15 | 6 21 | 14 55 | 23 32 | 132 | 132 | 5 56 42 | 25 07.0 | 29.6 | 0.09 |
| 16 | 7 11 | 15 47 | — | 132 | — | 6 49 59 | 25 38.3 | 29.8 | 0.15 |
| 17 | 8 11 | 16 39 | 0 18 | 130 | 131 | 7 43 53 | 24 56.2 | 30.1 | 0.23 |
| 18 | 9 19 | 17 30 | 0 56 | 125 | 127 | 8 37 35 | 23 00.3 | 30.4 | 0.32 |
| 19 | 10 33 | 18 20 | 1 26 | 119 | 121 | 9 30 30 | 19 54.3 | 30.8 | 0.42 |
| 20 | 11 49 | 19 09 | 1 50 | 111 | 114 | 10 22 25 | 15 45.2 | 31.2 | 0.52 |
| 21 | 13 08 | 19 57 | 2 11 | 102 | 106 | 11 13 35 | 10 42.6 | 31.7 | 0.63 |
| 22 | 14 28 | 20 47 | 2 30 | 92 | 97 | 12 04 34 | 4 58.7 | 32.2 | 0.73 |
| 23 | 15 52 | 21 37 | 2 49 | 82 | 87 | 12 56 16 | - 1 11.0 | 32.7 | 0.83 |
| 24 | 17 18 | 22 31 | 3 08 | 71 | 77 | 13 49 41 | - 7 27.4 | 33.1 | 0.91 |
| 25 | 18 48 | 23 29 | 3 31 | 62 | 67 | 14 45 49 | -13 26.4 | 33.3 | 0.97 |
| 26 | 20 17 | — | 4 00 | 54 | 59 | 15 45 21 | -18 40.3 | 33.4 | 1.00 |
| 27 | 21 40 | 0 30 | 4 37 | 49 | 52 | 16 48 16 | -22 40.3 | 33.4 | -1.00 |
| 28 | 22 49 | 1 34 | 5 26 | 48 | 48 | 17 53 27 | -25 03.0 | 33.1 | -0.96 |
| 29 | 23 43 | 2 39 | 6 29 | 50 | 48 | 18 58 51 | -25 36.9 | 32.7 | -0.91 |
| 30 | — | 3 40 | 7 42 | — | 51 | 20 02 04 | -24 25.8 | 32.2 | -0.83 |
| 31 | 0 22 | 4 37 | 9 00 | 55 | 57 | 21 01 26 | -21 45.9 | 31.7 | -0.74 |

| | | | | |
|------------------|------|---------------------------------|------------------------|-------------|
| ostatnia kwadra: | 3 V | 19 ^h 50 ^m | 3 V 17.0 ^h | Saturn 4°N |
| nów: | 11 V | 19 ^h 00 ^m | 4 V 21.1 ^h | Jowisz 5°N |
| pierwsza kwadra: | 19 V | 19 ^h 13 ^m | 6 V 17.9 ^h | Neptun 4°N |
| pełnia: | 26 V | 11 ^h 14 ^m | 10 V 21.2 ^h | Uran 2°N |
| | | | 12 V 22.1 ^h | Wenus 0.7°N |
| apogeum: | 11 V | 21 ^h 54 ^m | 13 V 18.0 ^h | Merkury 2°N |
| perygeum: | 26 V | 1 ^h 49 ^m | 16 V 4.9 ^h | Mars 1.5°S |
| | | | 31 V 1.4 ^h | Saturn 4°N |