

SŁOŃCE

| d | JD | Wsch. | Zach. | A | α | δ | η | θ |
|----------------------|------|-------------|--------------|-------------|----------|-------------------|--------|----------|
| | | $\lambda=0$ | $\varphi=50$ | | 0^hUT | | | |
| WRZESIEŃ 2021 | | | | | | | | |
| | 2459 | h m | h m | \pm° | h m s | $^\circ \ ' \ ''$ | m s | h m s |
| 1 | 459 | 5 15 | 18 44 | 104 | 10 41 35 | 8 16.5 | - 0 04 | 22 41 32 |
| 2 | 460 | 5 17 | 18 42 | 103 | 10 45 13 | 7 54.7 | 0 15 | 22 45 28 |
| 3 | 461 | 5 18 | 18 39 | 102 | 10 48 50 | 7 32.8 | 0 34 | 22 49 25 |
| 4 | 462 | 5 20 | 18 37 | 102 | 10 52 27 | 7 10.7 | 0 54 | 22 53 21 |
| 5 | 463 | 5 21 | 18 35 | 101 | 10 56 03 | 6 48.5 | 1 14 | 22 57 18 |
| 6 | 464 | 5 23 | 18 33 | 101 | 10 59 40 | 6 26.2 | 1 34 | 23 01 14 |
| 7 | 465 | 5 24 | 18 31 | 100 | 11 03 16 | 6 03.8 | 1 54 | 23 05 11 |
| 8 | 466 | 5 26 | 18 29 | 99 | 11 06 52 | 5 41.3 | 2 14 | 23 09 08 |
| 9 | 467 | 5 27 | 18 26 | 99 | 11 10 28 | 5 18.7 | 2 35 | 23 13 04 |
| 10 | 468 | 5 29 | 18 24 | 98 | 11 14 04 | 4 56.0 | 2 56 | 23 17 01 |
| 11 | 469 | 5 30 | 18 22 | 98 | 11 17 39 | 4 33.2 | 3 17 | 23 20 57 |
| 12 | 470 | 5 32 | 18 20 | 97 | 11 21 15 | 4 10.4 | 3 38 | 23 24 54 |
| 13 | 471 | 5 33 | 18 18 | 96 | 11 24 50 | 3 47.4 | 3 59 | 23 28 50 |
| 14 | 472 | 5 35 | 18 15 | 96 | 11 28 25 | 3 24.4 | 4 21 | 23 32 47 |
| 15 | 473 | 5 36 | 18 13 | 95 | 11 32 01 | 3 01.4 | 4 42 | 23 36 43 |
| 16 | 474 | 5 37 | 18 11 | 95 | 11 35 36 | 2 38.3 | 5 03 | 23 40 40 |
| 17 | 475 | 5 39 | 18 09 | 94 | 11 39 11 | 2 15.1 | 5 25 | 23 44 37 |
| 18 | 476 | 5 40 | 18 07 | 93 | 11 42 46 | 1 51.9 | 5 46 | 23 48 33 |
| 19 | 477 | 5 42 | 18 04 | 93 | 11 46 21 | 1 28.7 | 6 08 | 23 52 30 |
| 20 | 478 | 5 43 | 18 02 | 92 | 11 49 56 | 1 05.4 | 6 29 | 23 56 26 |
| 21 | 479 | 5 45 | 18 00 | 92 | 11 53 31 | 0 42.1 | 6 51 | 0 00 23 |
| 22 | 480 | 5 46 | 17 58 | 91 | 11 57 06 | 0 18.8 | 7 12 | 0 04 19 |
| 23 | 481 | 5 48 | 17 56 | 90 | 12 00 42 | - 0 04.5 | 7 33 | 0 08 16 |
| 24 | 482 | 5 49 | 17 53 | 90 | 12 04 17 | - 0 27.9 | 7 54 | 0 12 12 |
| 25 | 483 | 5 51 | 17 51 | 89 | 12 07 53 | - 0 51.2 | 8 15 | 0 16 09 |
| 26 | 484 | 5 53 | 17 49 | 89 | 12 11 29 | - 1 14.6 | 8 36 | 0 20 06 |
| 27 | 485 | 5 54 | 17 47 | 88 | 12 15 05 | - 1 38.0 | 8 56 | 0 24 02 |
| 28 | 486 | 5 56 | 17 45 | 87 | 12 18 41 | - 2 01.3 | 9 17 | 0 27 59 |
| 29 | 487 | 5 57 | 17 42 | 87 | 12 22 17 | - 2 24.6 | 9 37 | 0 31 55 |
| 30 | 488 | 5 59 | 17 40 | 86 | 12 25 54 | - 2 47.9 | 9 57 | 0 35 52 |

22 IX 19^h21^m Początek astronomicznej jesieni