

Wschody i zachody Słońca w Krakowie - Grudzien 2021

| Data | Ws h m | Za h m | Dług. Dnia h m | Dłuższy od Najkrot | Krótszy od Najdluz | Fazy Księżyca Przew. akt. Słońca (m, s, d, bd) |
|------------|-----------|-----------|----------------------|--------------------------|--------------------------|--|
| 1.Sro | 07 18 | 15 42 | 08 24 | 0 19 | 7 59 | m - mala |
| 2.Czw | 07 19 | 15 41 | 08 22 | 0 17 | 8 01 | m |
| 3.Pia | 07 20 | 15 40 | 08 20 | 0 15 | 8 05 | m h m |
| h 4.Sob | 07 21 | 15 40 | 08 19 | 0 14 | 8 04 | m Now 08 43, Ks. peryg. 11 |
| 5.Nie | 07 22 | 15 39 | 08 17 | 0 12 | 8 06 | m |
| 6.Pon | 07 23 | 15 39 | 08 16 | 0 11 | 8 07 | m |
| 7.Wto | 07 24 | 15 38 | 08 14 | 0 09 | 8 09 | s - srednia |
| 8.Sro | 07 25 | 15 38 | 08 13 | 0 08 | 8 10 | s |
| 9.Czw | 07 27 | 15 38 | 08 11 | 0 06 | 8 12 | s |
| 10.Pia | 07 28 | 15 38 | 08 10 | 0 05 | 8 13 | s |
| | | | | | | h m |
| 11.Sob | 07 29 | 15 38 | 08 09 | 0 04 | 8 14 | s I kwadra 02 36 |
| 12.Nie | 07 30 | 15 38 | 08 08 | 0 03 | 8 15 | s |
| 13.Pon | 07 30 | 15 38 | 08 08 | 0 03 | 8 15 | m |
| 14.Wto | 07 31 | 15 38 | 08 07 | 0 02 | 8 16 | m |
| 15.Sro | 07 32 | 15 38 | 08 06 | 0 01 | 8 17 | m |
| 16.Czw | 07 33 | 15 39 | 08 06 | 0 01 | 8 17 | m |
| 17.Pia | 07 33 | 15 39 | 08 06 | 0 01 | 8 17 | m |
| 18.Sob | 07 34 | 15 39 | 08 05 | 0 00 | 8 18 | m Ks. w apogeum 03 |
| 19.Nie | 07 35 | 15 40 | 08 05 | 0 00 | 8 18 | m Pelnia 05 35 |
| 20.Pon | 07 35 | 15 40 | 08 05 | 0 00 | 8 18 | m |
| | | | | | | h m |
| 21.Wto | 07 36 | 15 41 | 08 05 | 0 00 | 8 18 | m Zima 16 59 |
| 22.Sro | 07 36 | 15 41 | 08 05 | 0 00 | 8 18 | m |
| 23.Czw | 07 36 | 15 41 | 08 05 | 0 00 | 8 18 | m |
| 24.Pia | 07 37 | 15 42 | 08 05 | 0 00 | 8 18 | m |
| 25.Sob | 07 37 | 15 42 | 08 05 | 0 00 | 8 18 | m |
| 26.Nie | 07 37 | 15 43 | 08 06 | 0 01 | 8 17 | m |
| 27.Pon | 07 38 | 15 44 | 08 07 | 0 01 | 8 17 | m Ost. kwadra 03 23 |
| 28.Wto | 07 38 | 15 45 | 08 07 | 0 02 | 8 16 | ż |
| 29.Sro | 07 38 | 15 46 | 08 08 | 0 03 | 8 15 | ż |
| 30.Czw | 07 38 | 15 47 | 08 09 | 0 04 | 8 14 | ż |
| 31.Pia | 07 38 | 15 48 | 08 10 | 0 05 | 8 13 | ż |

Dane wyznaczone na podstawie: The American Ephemeris and Nautical Almanac * 2021 Staniatki, 14 wrzesnia 2021 <Adam Michalec>

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