

Wschody i zachody Słońca w Krakowie - Listopad 2018

| 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.Czw | 06 30 | 16 17 | 09 47 | 1 42 | 6 36 | m - mala |
| 2.Pia | 06 31 | 16 15 | 09 44 | 1 39 | 6 39 | m |
| 3.Sob | 06 33 | 16 14 | 09 41 | 1 36 | 6 42 | m |
| 4.Nie | 06 34 | 16 12 | 09 38 | 1 33 | 6 45 | m |
| 5.Pon | 06 36 | 16 10 | 09 34 | 1 29 | 6 49 | m |
| 6.Wto | 06 38 | 16 09 | 09 31 | 1 26 | 6 52 | m h m |
| 7.Sro | 06 39 | 16 07 | 09 28 | 1 23 | 6 55 | m Now 07 17 |
| 8.Czw | 06 41 | 16 06 | 09 25 | 1 20 | 6 58 | m |
| 9.Pia | 06 43 | 16 05 | 09 22 | 1 17 | 7 01 | m |
| 10.Sob | 06 44 | 16 03 | 09 19 | 1 14 | 7 04 | m |
| 11.Nie | 06 45 | 16 01 | 09 16 | 1 11 | 7 07 | m |
| 12.Pon | 06 47 | 16 00 | 09 13 | 1 08 | 7 10 | m |
| 13.Wto | 06 49 | 15 58 | 09 09 | 1 04 | 7 14 | m h |
| 14.Sro | 06 51 | 15 57 | 09 06 | 1 01 | 7 17 | m Ks. w apogeum 17 |
| 15.Czw | 06 52 | 15 55 | 09 03 | 0 58 | 7 20 | m I kwadra 15 54 |
| 16.Pia | 06 54 | 15 54 | 09 00 | 0 55 | 7 23 | m |
| 17.Sob | 06 56 | 15 53 | 08 57 | 0 52 | 7 26 | m |
| 18.Nie | 06 57 | 15 52 | 08 55 | 0 50 | 7 28 | m |
| 19.Pon | 06 59 | 15 51 | 08 52 | 0 47 | 7 31 | m |
| 20.Wto | 07 01 | 15 50 | 08 49 | 0 44 | 7 34 | m |
| 21.Sro | 07 02 | 15 49 | 08 47 | 0 42 | 7 36 | m |
| 22.Czw | 07 04 | 15 48 | 08 44 | 0 39 | 7 39 | m h m |
| 23.Pia | 07 05 | 15 47 | 08 42 | 0 37 | 7 41 | m Pełnia 06 39 |
| 24.Sob | 07 07 | 15 46 | 08 39 | 0 34 | 7 44 | m |
| 25.Nie | 07 08 | 15 45 | 08 37 | 0 32 | 7 46 | m h |
| 26.Pon | 07 10 | 15 45 | 08 35 | 0 30 | 7 48 | m Ks. w perygeum 13 |
| 27.Wto | 07 11 | 15 44 | 08 33 | 0 28 | 7 50 | m |
| 28.Sro | 07 12 | 15 43 | 08 31 | 0 26 | 7 52 | m |
| 29.Czw | 07 13 | 15 42 | 08 29 | 0 24 | 7 54 | m h m |
| 30.Pia | 07 15 | 15 42 | 08 27 | 0 22 | 7 56 | m Ost.kwadra 01 19 |

Dane wyznaczone na podstawie: The American Ephemeris and Nautical Almanac * 2018 Staniatki, dnia 2 wrzesnia 2018 <Adam Michalec>

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