



tijden van zonopkomst en –ondergang 2018

52°00' noorderbreedte en 5°00' oosterlengte

| dag | januari | | februari | | maart | | april | | mei | | juni | | juli | | augustus | | september | | oktober | | november | | december | | dag |
|-----|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|-----|
| | op | onder | op | onder | op | onder | op | onder | op | onder | op | onder | op | onder | op | onder | op | onder | op | onder | op | onder | op | onder | |
| 01 | 08.48 | 16.39 | 08.20 | 17.28 | 07.26 | 18.19 | 07.15 | 20.14 | 06.11 | 21.05 | 05.26 | 21.50 | 05.24 | 22.03 | 06.02 | 21.30 | 06.52 | 20.27 | 07.41 | 19.18 | 07.35 | 17.12 | 08.25 | 16.32 | 01 |
| 02 | 08.48 | 16.40 | 08.18 | 17.30 | 07.24 | 18.21 | 07.13 | 20.15 | 06.09 | 21.06 | 05.25 | 21.51 | 05.25 | 22.03 | 06.03 | 21.28 | 06.53 | 20.25 | 07.42 | 19.15 | 07.36 | 17.10 | 08.27 | 16.32 | 02 |
| 03 | 08.48 | 16.41 | 08.17 | 17.31 | 07.22 | 18.23 | 07.11 | 20.17 | 06.07 | 21.08 | 05.25 | 21.52 | 05.26 | 22.02 | 06.05 | 21.27 | 06.55 | 20.23 | 07.44 | 19.13 | 07.38 | 17.08 | 08.28 | 16.31 | 03 |
| 04 | 08.47 | 16.43 | 08.15 | 17.33 | 07.19 | 18.25 | 07.08 | 20.19 | 06.05 | 21.10 | 05.24 | 21.53 | 05.27 | 22.02 | 06.06 | 21.25 | 06.56 | 20.21 | 07.46 | 19.11 | 07.40 | 17.06 | 08.29 | 16.31 | 04 |
| 05 | 08.47 | 16.44 | 08.14 | 17.35 | 07.17 | 18.27 | 07.06 | 20.20 | 06.03 | 21.11 | 05.23 | 21.54 | 05.27 | 22.01 | 06.08 | 21.23 | 06.58 | 20.18 | 07.47 | 19.09 | 07.42 | 17.05 | 08.31 | 16.30 | 05 |
| 06 | 08.47 | 16.45 | 08.12 | 17.37 | 07.15 | 18.28 | 07.04 | 20.22 | 06.01 | 21.13 | 05.23 | 21.55 | 05.28 | 22.01 | 06.09 | 21.21 | 07.00 | 20.16 | 07.49 | 19.06 | 07.44 | 17.03 | 08.32 | 16.30 | 06 |
| 07 | 08.46 | 16.46 | 08.10 | 17.39 | 07.13 | 18.30 | 07.02 | 20.24 | 06.00 | 21.15 | 05.22 | 21.56 | 05.29 | 22.00 | 06.11 | 21.20 | 07.01 | 20.14 | 07.51 | 19.04 | 07.45 | 17.01 | 08.33 | 16.29 | 07 |
| 08 | 08.46 | 16.48 | 08.08 | 17.41 | 07.11 | 18.32 | 06.59 | 20.26 | 05.58 | 21.16 | 05.22 | 21.57 | 05.30 | 21.59 | 06.13 | 21.18 | 07.03 | 20.11 | 07.52 | 19.02 | 07.47 | 17.00 | 08.35 | 16.29 | 08 |
| 09 | 08.45 | 16.49 | 08.07 | 17.43 | 07.08 | 18.34 | 06.57 | 20.27 | 05.56 | 21.18 | 05.21 | 21.58 | 05.31 | 21.59 | 06.14 | 21.16 | 07.05 | 20.09 | 07.54 | 19.00 | 07.49 | 16.58 | 08.36 | 16.29 | 09 |
| 10 | 08.45 | 16.51 | 08.05 | 17.44 | 07.06 | 18.36 | 06.55 | 20.29 | 05.54 | 21.19 | 05.21 | 21.59 | 05.32 | 21.58 | 06.16 | 21.14 | 07.06 | 20.07 | 07.56 | 18.57 | 07.51 | 16.56 | 08.37 | 16.29 | 10 |
| 11 | 08.44 | 16.52 | 08.03 | 17.46 | 07.04 | 18.37 | 06.53 | 20.31 | 05.53 | 21.21 | 05.20 | 21.59 | 05.33 | 21.57 | 06.17 | 21.12 | 07.08 | 20.04 | 07.58 | 18.55 | 07.53 | 16.55 | 08.38 | 16.28 | 11 |
| 12 | 08.44 | 16.53 | 08.01 | 17.48 | 07.01 | 18.39 | 06.50 | 20.32 | 05.51 | 21.23 | 05.20 | 22.00 | 05.34 | 21.56 | 06.19 | 21.10 | 07.09 | 20.02 | 07.59 | 18.53 | 07.54 | 16.53 | 08.39 | 16.28 | 12 |
| 13 | 08.43 | 16.55 | 07.59 | 17.50 | 06.59 | 18.41 | 06.48 | 20.34 | 05.50 | 21.24 | 05.20 | 22.01 | 05.36 | 21.55 | 06.21 | 21.08 | 07.11 | 20.00 | 08.01 | 18.51 | 07.56 | 16.52 | 08.40 | 16.28 | 13 |
| 14 | 08.42 | 16.57 | 07.57 | 17.52 | 06.57 | 18.43 | 06.46 | 20.36 | 05.48 | 21.26 | 05.20 | 22.01 | 05.37 | 21.54 | 06.22 | 21.06 | 07.13 | 19.57 | 08.03 | 18.48 | 07.58 | 16.50 | 08.41 | 16.28 | 14 |
| 15 | 08.41 | 16.58 | 07.55 | 17.54 | 06.55 | 18.44 | 06.44 | 20.38 | 05.46 | 21.27 | 05.20 | 22.02 | 05.38 | 21.53 | 06.24 | 21.04 | 07.14 | 19.55 | 08.04 | 18.46 | 08.00 | 16.49 | 08.42 | 16.29 | 15 |
| 16 | 08.40 | 17.00 | 07.53 | 17.56 | 06.52 | 18.46 | 06.42 | 20.39 | 05.45 | 21.29 | 05.19 | 22.02 | 05.39 | 21.52 | 06.25 | 21.02 | 07.16 | 19.53 | 08.06 | 18.44 | 08.01 | 16.48 | 08.42 | 16.29 | 16 |
| 17 | 08.39 | 17.01 | 07.51 | 17.58 | 06.50 | 18.48 | 06.39 | 20.41 | 05.43 | 21.30 | 05.19 | 22.03 | 05.40 | 21.51 | 06.27 | 21.00 | 07.18 | 19.50 | 08.08 | 18.42 | 08.03 | 16.46 | 08.43 | 16.29 | 17 |
| 18 | 08.38 | 17.03 | 07.49 | 17.59 | 06.48 | 18.50 | 06.37 | 20.43 | 05.42 | 21.32 | 05.19 | 22.03 | 05.42 | 21.50 | 06.29 | 20.58 | 07.19 | 19.48 | 08.10 | 18.40 | 08.05 | 16.45 | 08.45 | 16.30 | 18 |
| 19 | 08.37 | 17.05 | 07.47 | 18.01 | 06.45 | 18.51 | 06.35 | 20.44 | 05.41 | 21.33 | 05.19 | 22.03 | 05.43 | 21.49 | 06.30 | 20.56 | 07.21 | 19.46 | 08.11 | 18.38 | 08.06 | 16.44 | 08.45 | 16.30 | 19 |
| 20 | 08.36 | 17.06 | 07.45 | 18.03 | 06.43 | 18.53 | 06.33 | 20.46 | 05.39 | 21.35 | 05.20 | 22.04 | 05.44 | 21.48 | 06.32 | 20.54 | 07.22 | 19.43 | 08.13 | 18.36 | 08.08 | 16.43 | 08.45 | 16.30 | 20 |
| 21 | 08.35 | 17.08 | 07.43 | 18.05 | 06.41 | 18.55 | 06.31 | 20.48 | 05.38 | 21.36 | 05.20 | 22.04 | 05.46 | 21.46 | 06.34 | 20.52 | 07.24 | 19.41 | 08.15 | 18.34 | 08.10 | 16.41 | 08.46 | 16.30 | 21 |
| 22 | 08.34 | 17.10 | 07.41 | 18.07 | 06.38 | 18.56 | 06.29 | 20.49 | 05.37 | 21.38 | 05.20 | 22.04 | 05.47 | 21.45 | 06.35 | 20.50 | 07.26 | 19.39 | 08.17 | 18.31 | 08.11 | 16.40 | 08.46 | 16.31 | 22 |
| 23 | 08.33 | 17.11 | 07.38 | 18.09 | 06.36 | 18.58 | 06.27 | 20.51 | 05.35 | 21.39 | 05.20 | 22.04 | 05.48 | 21.44 | 06.37 | 20.47 | 07.27 | 19.36 | 08.18 | 18.29 | 08.13 | 16.39 | 08.47 | 16.31 | 23 |
| 24 | 08.31 | 17.13 | 07.37 | 18.10 | 06.34 | 19.00 | 06.25 | 20.53 | 05.34 | 21.40 | 05.21 | 22.04 | 05.50 | 21.42 | 06.38 | 20.45 | 07.29 | 19.34 | 08.20 | 18.27 | 08.15 | 16.38 | 08.47 | 16.32 | 24 |
| 25 | 08.30 | 17.15 | 07.35 | 18.12 | 07.31 | 20.02 | 06.23 | 20.55 | 05.33 | 21.42 | 05.21 | 22.04 | 05.51 | 21.41 | 06.40 | 20.43 | 07.31 | 19.32 | 08.22 | 18.25 | 08.16 | 16.37 | 08.47 | 16.33 | 25 |
| 26 | 08.29 | 17.17 | 07.33 | 18.14 | 07.29 | 20.03 | 06.21 | 20.56 | 05.32 | 21.43 | 05.21 | 22.04 | 05.53 | 21.40 | 06.42 | 20.41 | 07.32 | 19.29 | 08.24 | 18.23 | 08.18 | 16.36 | 08.48 | 16.33 | 26 |
| 27 | 08.27 | 17.19 | 07.30 | 18.16 | 07.27 | 20.05 | 06.18 | 20.58 | 05.31 | 21.44 | 05.22 | 22.04 | 05.54 | 21.38 | 06.43 | 20.39 | 07.34 | 19.27 | 08.26 | 18.21 | 08.19 | 16.35 | 08.48 | 16.34 | 27 |
| 28 | 08.26 | 17.20 | 07.28 | 18.18 | 07.25 | 20.07 | 06.16 | 21.00 | 05.30 | 21.46 | 05.22 | 22.04 | 05.56 | 21.37 | 06.45 | 20.36 | 07.36 | 19.25 | 07.27 | 17.19 | 08.21 | 16.34 | 08.48 | 16.35 | 28 |
| 29 | 08.25 | 17.22 | | | 07.22 | 20.08 | 06.15 | 21.01 | 05.29 | 21.47 | 05.23 | 22.04 | 05.57 | 21.35 | 06.47 | 20.34 | 07.37 | 19.22 | 07.29 | 17.17 | 08.22 | 16.34 | 08.48 | 16.36 | 29 |
| 30 | 08.23 | 17.24 | | | 07.20 | 20.10 | 06.13 | 21.03 | 05.28 | 21.48 | 05.24 | 22.03 | 05.59 | 21.33 | 06.48 | 20.32 | 07.39 | 19.20 | 07.31 | 17.16 | 08.24 | 16.33 | 08.48 | 16.37 | 30 |
| 31 | 08.22 | 17.26 | | | 07.18 | 20.12 | | | 05.27 | 21.49 | | | 06.00 | 21.32 | 06.50 | 20.30 | | | 07.33 | 17.14 | | | 08.48 | 16.38 | 31 |

vanaf 1 januari tot en met 24 maart Midden-Europese Tijd | vanaf 25 maart tot en met 27 oktober Midden-Europese Zomertijd | vanaf 28 oktober tot en met 31 december Midden-Europese Tijd

begin van de lente: 20 maart 17.15 MET
begin van de zomer: 21 juni 12.07 MEZT
begin van de herfst: 23 september 03.54 MEZT
begin van de winter: 21 december 23.23 MET

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Datum

18 augustus 2017