

# Mond- und Dämmerungstabelle 2024

## für die visuelle Deep-Sky-Beobachtung

Perg 48.2503° N 14.6336° E

Berechnung: pyEphem  
Textsatz: L<sup>A</sup>T<sub>E</sub>X

### Atmosphären-Einstellungen in pyEphem

Standort.pressure = 1010.0  
Standort.horizon = '0:00:00.0'

Alle Zeitangaben beziehen sich auf den in der jeweiligen Zeile angegeben Kalendertag. Liegt ein Ereignis bereits nach Mitternacht, also schon am Folgetag, ist die Zeitangabe mit einem \* gekennzeichnet, z.B.: 00:20\*.

**Spalte 1** Kalendertag.

**Spalte 2** Bei »MESZ« sind alle Zeitangaben in dieser Zeile in Mitteleuropäischer Sommerzeit, ansonsten standardmäßig in MEZ.

**Spalte 3** Die für Deep-Sky-Beobachtungen nutzbare Zeitspanne: Es ist astronomisch dunkel (Sonne steht tiefer als  $-18^\circ$ ) und kein Mond stört.

**Spalte 4** Dauer der für Deep-Sky-Beobachtungen nutzbaren Zeitspanne.

**Spalte 5** Ereignisse, die die für Deep-Sky-Beobachtungen nutzbare Zeitspanne begrenzen: AN<sub>+</sub> (Einbruch der astronomischen Nacht = Ende der astr. Abenddämmerung), M<sub>v</sub> (Monduntergang), AN<sub>-</sub> (Ende der astronomischen Nacht = Beginn der astr. Morgendämmerung), M<sub>7</sub>

(Mondaufgang), Astr. MD (Astronomische Mitternachtsdämmerung), Naut. MD (Nautische Mitternachtsdämmerung).

**Spalte 6** Mondphase.

**Spalte 7** Mondaufgang.

**Spalte 8** Monduntergang.

**Spalte 9** Beginn der astr. Morgendämmerung (Sonnenhöhe =  $-18^\circ$ ).

**Spalte 10** Dauer der astr. Morgendämmerung.

**Spalte 11** Beginn der naut. Morgendämmerung (Sonnenhöhe =  $-12^\circ$ ).

**Spalte 12** Dauer der naut. Morgendämmerung.

**Spalte 13** Beginn der bürg. Morgendämmerung (Sonnenhöhe =  $-6^\circ$ ).

**Spalte 14** Dauer der bürg. Morgendämmerung.

**Spalte 15** Sonnenaufgang.

**Spalte 16** Taglänge.

**Spalte 17** Sonnenuntergang.

**Spalte 18** Dauer der bürg. Abenddämmerung.

**Spalte 19** Ende der bürg. Abenddämmerung (Sonnenhöhe =  $-6^\circ$ ).

**Spalte 20** Dauer der naut. Abenddämmerung.

**Spalte 21** Ende der naut. Abenddämmerung (Sonnenhöhe =  $-12^\circ$ ).

**Spalte 22** Dauer der astr. Abenddämmerung.

**Spalte 23** Ende der astr. Abenddämmerung (Sonnenhöhe =  $-18^\circ$ ).

**Spalte 24** Länge der Nacht.

**Spalte 25** Länge der astr. Nacht.

**Für Beobachter, die zu Zeiten der Mitternachtsdämmerung während der astr. Dämmerung beobachten möchten:**

**Spalte 26** Nutzbare Zeitspanne: Es ist »nautisch dunkel« (Sonne steht tiefer als  $-12^\circ$ ) und kein Mond stört.

**Spalte 27** Dauer der in Spalte 26 angegebenen Zeitspanne.

**Spalte 28** Ereignisse, die die nutzbare Zeitspanne begrenzen: ND<sub>+</sub> (Beginn der »naut. Dunkelheit« = Ende der naut. Abenddämmerung), M<sub>v</sub> (Monduntergang), ND<sub>-</sub> (Ende der »naut. Dunkelheit« = Beginn der naut. Morgendämmerung), M<sub>7</sub> (Mondaufgang), Naut. MD (Nautische Mitternachtsdämmerung).

**Spalte 29** Identisch zu Spalte 1.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
2024	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne					Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2024	
			$\Delta t$		Ph.	$\nearrow$	$\searrow$	Astr.	$\Delta t$	Naut.	$\Delta t$	Bürg.	$\Delta t$	$\nearrow$	$\Delta t$	$\searrow$	$\Delta t$	Bürg.	$\Delta t$	Naut.	$\Delta t$	Astr.	$\Delta t$	$\Delta t$		$\Delta t$			
Mo, 1. Jan		18:13–21:55	3h 42m	AN <sub>+</sub> bis M <sub>7</sub>		21:55	11:01	05:56	37m	06:34	38m	07:13	38m	07:51	8h 25m	16:17	38m	16:56	38m	17:35	37m	18:13	15h 34m	11h 43m					Mo, 1. Jan
Di, 2. Jan		18:13–23:01	4h 47m	AN <sub>+</sub> bis M <sub>7</sub>		23:01	11:15	05:56	37m	06:34	38m	07:13	38m	07:51	8h 26m	16:18	38m	16:57	38m	17:36	37m	18:13	15h 33m	11h 42m					Di, 2. Jan
Mi, 3. Jan		18:14–00:07*	5h 52m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	11:28	05:56	37m	06:34	38m	07:13	38m	07:51	8h 27m	16:19	38m	16:58	38m	17:37	37m	18:14	15h 31m	11h 42m					Mi, 3. Jan
Do, 4. Jan		18:15–01:15*	6h 59m	AN <sub>+</sub> bis M <sub>7</sub>	☾	00:07	11:41	05:56	37m	06:34	38m	07:13	38m	07:51	8h 29m	16:20	38m	16:59	38m	17:37	37m	18:15	15h 30m	11h 41m					Do, 4. Jan
Fr, 5. Jan		18:16–02:26*	8h 09m	AN <sub>+</sub> bis M <sub>7</sub>		01:15	11:55	05:56	37m	06:34	38m	07:13	38m	07:51	8h 30m	16:21	38m	17:00	38m	17:38	37m	18:16	15h 29m	11h 40m					Fr, 5. Jan
Sa, 6. Jan		18:17–03:41*	9h 23m	AN <sub>+</sub> bis M <sub>7</sub>		02:26	12:13	05:56	37m	06:34	38m	07:13	38m	07:51	8h 31m	16:22	38m	17:01	38m	17:39	37m	18:17	15h 28m	11h 39m					Sa, 6. Jan
So, 7. Jan		18:18–04:58*	10h 40m	AN <sub>+</sub> bis M <sub>7</sub>		03:41	12:35	05:56	37m	06:34	38m	07:12	38m	07:51	8h 33m	16:24	38m	17:02	38m	17:40	37m	18:18	15h 26m	11h 37m					So, 7. Jan
Mo, 8. Jan		18:19–05:56*	11h 36m	AN <sub>+</sub> bis AN <sub>–</sub>		04:58	13:06	05:56	37m	06:34	38m	07:12	38m	07:50	8h 34m	16:25	38m	17:03	38m	17:41	37m	18:19	15h 25m	11h 36m					Mo, 8. Jan
Di, 9. Jan		18:20–05:56*	11h 35m	AN <sub>+</sub> bis AN <sub>–</sub>		06:15	13:49	05:56	37m	06:33	38m	07:12	38m	07:50	8h 36m	16:26	38m	17:04	38m	17:43	37m	18:20	15h 23m	11h 35m					Di, 9. Jan
Mi, 10. Jan		18:21–05:55*	11h 34m	AN <sub>+</sub> bis AN <sub>–</sub>		07:25	14:48	05:56	37m	06:33	38m	07:12	37m	07:50	8h 37m	16:27	37m	17:05	38m	17:44	37m	18:21	15h 21m	11h 34m					Mi, 10. Jan
Do, 11. Jan		18:22–05:55*	11h 32m	AN <sub>+</sub> bis AN <sub>–</sub>	☾	08:22	16:04	05:55	37m	06:33	38m	07:11	37m	07:49	8h 39m	16:29	37m	17:06	38m	17:45	37m	18:22	15h 20m	11h 32m					Do, 11. Jan
Fr, 12. Jan		18:23–05:55*	11h 31m	AN <sub>+</sub> bis AN <sub>–</sub>		09:04	17:30	05:55	37m	06:33	38m	07:11	37m	07:49	8h 41m	16:30	37m	17:08	38m	17:46	37m	18:23	15h 18m	11h 31m					Fr, 12. Jan
Sa, 13. Jan		18:59–05:54*	10h 55m	M <sub>–</sub> bis AN <sub>–</sub>		09:35	18:59	05:55	37m	06:32	38m	07:10	37m	07:48	8h 43m	16:31	37m	17:09	38m	17:47	37m	18:24	15h 16m	11h 29m					Sa, 13. Jan
So, 14. Jan		20:26–05:54*	9h 28m	M <sub>–</sub> bis AN <sub>–</sub>		09:58	20:26	05:54	37m	06:32	38m	07:10	37m	07:47	8h 45m	16:33	37m	17:10	38m	17:48	37m	18:26	15h 14m	11h 28m					So, 14. Jan
Mo, 15. Jan		21:50–05:54*	8h 03m	M <sub>–</sub> bis AN <sub>–</sub>		10:17	21:50	05:54	37m	06:31	38m	07:09	37m	07:47	8h 47m	16:34	37m	17:11	38m	17:49	37m	18:27	15h 12m	11h 26m					Mo, 15. Jan
Di, 16. Jan		23:11–05:53*	6h 41m	M <sub>–</sub> bis AN <sub>–</sub>		10:34	23:11	05:54	37m	06:31	37m	07:09	37m	07:46	8h 49m	16:35	37m	17:13	37m	17:51	37m	18:28	15h 10m	11h 25m					Di, 16. Jan
Mi, 17. Jan		00:31*–05:53*	5h 21m	M <sub>–</sub> bis AN <sub>–</sub>		10:50	—:—	05:53	37m	06:30	37m	07:08	37m	07:45	8h 51m	16:37	37m	17:14	37m	17:52	37m	18:29	15h 07m	11h 23m					Mi, 17. Jan
Do, 18. Jan		01:51*–05:52*	4h 01m	M <sub>–</sub> bis AN <sub>–</sub>	☾	11:08	00:31	05:53	37m	06:30	37m	07:08	37m	07:45	8h 53m	16:38	37m	17:15	37m	17:53	37m	18:30	15h 05m	11h 21m					Do, 18. Jan
Fr, 19. Jan		03:10*–05:51*	2h 41m	M <sub>–</sub> bis AN <sub>–</sub>		11:28	01:51	05:52	37m	06:29	37m	07:07	37m	07:44	8h 55m	16:40	37m	17:17	37m	17:54	37m	18:32	15h 03m	11h 19m					Fr, 19. Jan
Sa, 20. Jan		04:27*–05:51*	1h 23m	M <sub>–</sub> bis AN <sub>–</sub>		11:53	03:10	05:51	37m	06:28	37m	07:06	36m	07:43	8h 58m	16:41	36m	17:18	37m	17:56	37m	18:33	15h 01m	11h 17m					Sa, 20. Jan
So, 21. Jan		05:38*–05:50*	11m	M <sub>–</sub> bis AN <sub>–</sub>		12:25	04:27	05:51	37m	06:28	37m	07:05	36m	07:42	9h 00m	16:43	36m	17:19	37m	17:57	37m	18:34	14h 58m	11h 16m					So, 21. Jan
Mo, 22. Jan		—:—:—:—	–	Mond stört		13:07	05:38	05:50	36m	06:27	37m	07:04	36m	07:41	9h 02m	16:44	36m	17:21	37m	17:58	36m	18:35	14h 56m	11h 14m					Mo, 22. Jan
Di, 23. Jan		—:—:—:—	–	Mond stört		14:01	06:39	05:49	36m	06:26	37m	07:04	36m	07:40	9h 05m	16:46	36m	17:22	37m	18:00	36m	18:37	14h 53m	11h 11m					Di, 23. Jan
Mi, 24. Jan		—:~:~:~:~	–	Mond stört		15:05	07:26	05:49	36m	06:25	37m	07:03	36m	07:39	9h 07m	16:47	36m	17:24	37m	18:01	36m	18:38	14h 51m	11h 09m					Mi, 24. Jan
Do, 25. Jan		—:~:~:~:~	–	Mond stört	☾	16:14	08:02	05:48	36m	06:25	37m	07:02	36m	07:38	9h 10m	16:49	36m	17:25	37m	18:02	36m	18:39	14h 48m	11h 07m					Do, 25. Jan
Fr, 26. Jan		—:~:~:~:~	–	Mond stört		17:25	08:29	05:47	36m	06:24	37m	07:01	36m	07:37	9h 13m	16:50	36m	17:26	37m	18:04	36m	18:40	14h 45m	11h 05m					Fr, 26. Jan
Sa, 27. Jan		—:~:~:~:~	–	Mond stört		18:35	08:50	05:46	36m	06:23	37m	07:00	36m	07:36	9h 15m	16:52	36m	17:28	37m	18:05	36m	18:42	14h 43m	11h 03m					Sa, 27. Jan
So, 28. Jan		18:43–19:43	59m	AN <sub>+</sub> bis M <sub>7</sub>		19:43	09:06	05:45	36m	06:22	37m	06:59	36m	07:35	9h 18m	16:53	36m	17:29	37m	18:06	36m	18:43	14h 40m	11h 01m					So, 28. Jan
Mo, 29. Jan		18:44–20:49	2h 04m	AN <sub>+</sub> bis M <sub>7</sub>		20:49	09:21	05:44	36m	06:21	36m	06:58	35m	07:34	9h 21m	16:55	35m	17:31	36m	18:08	36m	18:44	14h 37m	10h 58m					Mo, 29. Jan
Di, 30. Jan		18:46–21:55	3h 08m	AN <sub>+</sub> bis M <sub>7</sub>		21:55	09:34	05:43	36m	06:20	36m	06:57	35m	07:32	9h 24m	16:56	35m	17:32	36m	18:09	36m	18:46	14h 34m	10h 56m					Di, 30. Jan
Mi, 31. Jan		18:47–23:01	4h 14m	AN <sub>+</sub> bis M <sub>7</sub>		23:01	09:46	05:42	36m	06:19	36m	06:55	35m	07:31	9h 26m	16:58	35m	17:34	36m	18:11	36m	18:47	14h 31m	10h 53m					Mi, 31. Jan
Do, 1. Feb		18:49–00:10*	5h 21m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	10:00	05:41	36m	06:18	36m	06:54	35m	07:30	9h 29m	17:00	35m	17:35	36m	18:12	36m	18:49	14h 28m	10h 51m					Do, 1. Feb
Fr, 2. Feb		18:50–01:21*	6h 31m	AN <sub>+</sub> bis M <sub>7</sub>		00:10	10:16	05:40	36m	06:16	36m	06:53	35m	07:28	9h 32m	17:01	35m	17:37	36m	18:13	36m	18:50	14h 25m	10h 48m					Fr, 2. Feb
Sa, 3. Feb		18:51–02:36*	7h 44m	AN <sub>+</sub> bis M <sub>7</sub>	☾	01:21	10:35	05:39	36m	06:15	36m	06:52	35m	07:27	9h 35m	17:03	35m	17:38	36m	18:15	36m	18:51	14h 22m	10h 46m					Sa, 3. Feb
So, 4. Feb		18:53–03:52*	8h 59m	AN <sub>+</sub> bis M <sub>7</sub>		02:36	11:01	05:38	36m	06:14	36m	06:50	35m	07:26	9h 38m	17:04	35m	17:40	36m	18:16	36m	18:53	14h 19m	10h 43m					So, 4. Feb
Mo, 5. Feb		18:54–05:04*	10h 09m	AN <sub>+</sub> bis M <sub>7</sub>		03:52	11:36	05:36	36m	06:13	36m	06:49	35m	07:24	9h 41m	17:06	35m	17:41	36m	18:18	36m	18:54	14h 16m	10h 41m					Mo, 5. Feb
Di, 6. Feb		18:55–05:34*	10h 38m	AN <sub>+</sub> bis AN <sub>–</sub>		05:04	12:26	05:35	36m	06:11	36m	06:48	35m	07:23	9h 44m	17:08	35m	17:43	36m	18:19	36m	18:55	14h 13m	10h 38m					Di, 6. Feb
Mi, 7. Feb		18:57–05:33*	10h 35m	AN <sub>+</sub> bis AN <sub>–</sub>		06:07	13:33	05:34	36m	06:10	36m	06:46	34m	07:21	9h 47m	17:09	34m	17:44	36m	18:21	36m	18:57	14h 10m	10h 35m					Mi, 7. Feb
Do, 8. Feb		18:58–05:31*	10h 32m	AN <sub>+</sub> bis AN <sub>–</sub>		06:55	14:55	05:33	36m	06:09	36m	06:45	34m	07:20	9h 51m	17:11	34m	17:46	36m	18:22	36m	18:58	14h 07m	10h 32m					Do, 8. Feb
Fr, 9. Feb		19:00–05:30*	10h 30m	AN <sub>+</sub> bis AN <sub>–</sub>	☾	07:31	16:24	05:31	36m	06:07	36m	06:44	34m	07:18	9h 54m	17:13	34m	17:47	36m	18:23	36m	19:00	14h 04m	10h 30m					Fr, 9. Feb
Sa, 10. Feb		19:01–05:29*	10h 27m	AN <sub>+</sub> bis AN <sub>–</sub>		07:58	17:55	05:30	36m	06:06	36m	06:42	34m	07:17	9h 57m	17:14	34m	17:49	36m	18:25	36m	19:01	14h 01m	10h 27m					Sa, 10. Feb
So, 11. Feb		19:24–05:27*	10h 03m	M <sub>–</sub> bis AN <sub>–</sub>		08:20	19:24	05:29	36m	06:05	35m	06:41	34m	07:15	10h														

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
2024	Zeitzone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2024			
			$\Delta t$		Ph.	$\uparrow$	$\searrow$	Astr.	$\Delta t$	Naut.	$\Delta t$	Bürg.	$\Delta t$	$\uparrow$	$\Delta t$	$\searrow$	$\Delta t$	Bürg.	$\Delta t$	Naut.	$\Delta t$	Astr.	$\Delta t$	$\Delta t$		$\Delta t$			
Di, 20. Feb		—:—:—:—	—	Mond stört		12:55	05:26	05:15	36m	05:51	35m	06:26	33m	07:00	10h 30m	17:30	33m	18:04	35m	18:40	36m	19:16	13h 27m	9h 57m					Di, 20. Feb
Mi, 21. Feb		—:—:—:—	—	Mond stört		14:03	06:05	05:13	36m	05:49	35m	06:24	33m	06:58	10h 33m	17:32	33m	18:06	35m	18:41	36m	19:17	13h 24m	9h 53m					Mi, 21. Feb
Do, 22. Feb		—:—:—:—	—	Mond stört		15:13	06:34	05:11	36m	05:47	35m	06:23	33m	06:56	10h 37m	17:33	33m	18:07	35m	18:43	36m	19:19	13h 21m	9h 50m					Do, 22. Feb
Fr, 23. Feb		—:—:~:~	—	Mond stört		16:23	06:56	05:09	36m	05:45	35m	06:21	33m	06:54	10h 40m	17:35	33m	18:09	35m	18:44	36m	19:20	13h 17m	9h 47m					Fr, 23. Feb
Sa, 24. Feb		—:~:~:~	—	Mond stört	○	17:32	07:13	05:08	36m	05:44	35m	06:19	33m	06:53	10h 43m	17:37	33m	18:10	35m	18:46	36m	19:22	13h 14m	9h 44m					Sa, 24. Feb
So, 25. Feb		—:~:~:~	—	Mond stört		18:39	07:28	05:06	36m	05:42	35m	06:17	33m	06:51	10h 47m	17:38	33m	18:12	35m	18:47	36m	19:23	13h 10m	9h 40m					So, 25. Feb
Mo, 26. Feb		19:25 – 19:45	20m	AN <sub>+</sub> bis M <sub>7</sub>		19:45	07:41	05:04	36m	05:40	35m	06:15	33m	06:49	10h 50m	17:40	33m	18:13	35m	18:49	36m	19:25	13h 07m	9h 37m					Mo, 26. Feb
Di, 27. Feb		19:26 – 20:51	1h 24m	AN <sub>+</sub> bis M <sub>7</sub>		20:51	07:54	05:02	36m	05:38	35m	06:14	33m	06:47	10h 54m	17:41	33m	18:15	35m	18:50	36m	19:26	13h 03m	9h 33m					Di, 27. Feb
Mi, 28. Feb		19:28 – 21:59	2h 30m	AN <sub>+</sub> bis M <sub>7</sub>		21:59	08:07	05:00	36m	05:36	35m	06:12	33m	06:45	10h 57m	17:43	33m	18:16	35m	18:52	36m	19:28	13h 00m	9h 30m					Mi, 28. Feb
Do, 29. Feb		19:29 – 23:09	3h 39m	AN <sub>+</sub> bis M <sub>7</sub>		23:09	08:21	04:58	36m	05:35	35m	06:10	33m	06:43	11h 01m	17:44	33m	18:18	35m	18:53	36m	19:29	12h 56m	9h 27m					Do, 29. Feb
Fr, 1. Mrz		19:31 – 00:21*	4h 50m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	08:39	04:56	36m	05:33	35m	06:08	33m	06:41	11h 04m	17:46	33m	18:19	35m	18:55	36m	19:31	12h 53m	9h 23m					Fr, 1. Mrz
Sa, 2. Mrz		19:32 – 01:35*	6h 02m	AN <sub>+</sub> bis M <sub>7</sub>		00:21	09:01	04:55	36m	05:31	35m	06:06	33m	06:39	11h 08m	17:47	33m	18:21	35m	18:56	36m	19:32	12h 49m	9h 20m					Sa, 2. Mrz
So, 3. Mrz		19:34 – 02:47*	7h 13m	AN <sub>+</sub> bis M <sub>7</sub>	◐	01:35	09:31	04:53	36m	05:29	35m	06:04	33m	06:37	11h 11m	17:49	33m	18:22	35m	18:58	36m	19:34	12h 46m	9h 16m					So, 3. Mrz
Mo, 4. Mrz		19:36 – 03:53*	8h 16m	AN <sub>+</sub> bis M <sub>7</sub>		02:47	10:13	04:51	36m	05:27	35m	06:02	33m	06:35	11h 15m	17:51	33m	18:24	35m	18:59	36m	19:36	12h 42m	9h 12m					Mo, 4. Mrz
Di, 5. Mrz		19:37 – 04:46*	9h 08m	AN <sub>+</sub> bis M <sub>7</sub>		03:53	11:10	04:49	36m	05:25	35m	06:00	33m	06:33	11h 18m	17:52	33m	18:25	35m	19:01	36m	19:37	12h 39m	9h 09m					Di, 5. Mrz
Mi, 6. Mrz		19:39 – 04:44*	9h 05m	AN <sub>+</sub> bis AN <sub>-</sub>		04:46	12:23	04:47	36m	05:23	35m	05:58	33m	06:31	11h 22m	17:54	33m	18:27	35m	19:02	36m	19:39	12h 35m	9h 05m					Mi, 6. Mrz
Do, 7. Mrz		19:40 – 04:42*	9h 02m	AN <sub>+</sub> bis AN <sub>-</sub>		05:26	13:48	04:44	36m	05:21	35m	05:56	33m	06:29	11h 25m	17:55	33m	18:28	35m	19:04	36m	19:40	12h 32m	9h 02m					Do, 7. Mrz
Fr, 8. Mrz		19:42 – 04:40*	8h 58m	AN <sub>+</sub> bis AN <sub>-</sub>		05:57	15:17	04:42	36m	05:19	35m	05:54	33m	06:27	11h 29m	17:57	33m	18:30	35m	19:05	36m	19:42	12h 28m	8h 58m					Fr, 8. Mrz
Sa, 9. Mrz		19:44 – 04:38*	8h 54m	AN <sub>+</sub> bis AN <sub>-</sub>		06:20	16:47	04:40	36m	05:17	35m	05:52	32m	06:25	11h 32m	17:58	33m	18:31	35m	19:07	36m	19:44	12h 25m	8h 54m					Sa, 9. Mrz
So, 10. Mrz		19:45 – 04:36*	8h 50m	AN <sub>+</sub> bis AN <sub>-</sub>	◑	06:40	18:16	04:38	36m	05:15	35m	05:50	32m	06:23	11h 36m	18:00	33m	18:33	35m	19:08	36m	19:45	12h 21m	8h 50m					So, 10. Mrz
Mo, 11. Mrz		19:47 – 04:34*	8h 47m	AN <sub>+</sub> bis AN <sub>-</sub>		06:57	19:43	04:36	36m	05:13	35m	05:48	32m	06:21	11h 39m	18:01	33m	18:34	35m	19:10	36m	19:47	12h 18m	8h 47m					Mo, 11. Mrz
Di, 12. Mrz		21:09 – 04:32*	7h 22m	M <sub>7</sub> bis AN <sub>-</sub>		07:15	21:09	04:34	36m	05:11	35m	05:46	32m	06:19	11h 43m	18:03	33m	18:36	35m	19:11	37m	19:48	12h 14m	8h 43m					Di, 12. Mrz
Mi, 13. Mrz		22:35 – 04:30*	5h 54m	M <sub>7</sub> bis AN <sub>-</sub>		07:33	22:35	04:32	37m	05:09	35m	05:44	32m	06:17	11h 46m	18:04	33m	18:37	35m	19:13	37m	19:50	12h 11m	8h 39m					Mi, 13. Mrz
Do, 14. Mrz		00:00* – 04:27*	4h 27m	M <sub>7</sub> bis AN <sub>-</sub>		07:56	—:—	04:30	37m	05:07	35m	05:42	32m	06:15	11h 50m	18:06	33m	18:39	35m	19:14	37m	19:52	12h 07m	8h 35m					Do, 14. Mrz
Fr, 15. Mrz		01:19* – 04:25*	3h 06m	M <sub>7</sub> bis AN <sub>-</sub>		08:24	00:00	04:27	37m	05:05	35m	05:40	32m	06:13	11h 53m	18:07	33m	18:40	35m	19:16	37m	19:53	12h 03m	8h 31m					Fr, 15. Mrz
Sa, 16. Mrz		02:29* – 04:23*	1h 54m	M <sub>7</sub> bis AN <sub>-</sub>		09:00	01:19	04:25	37m	05:02	35m	05:38	32m	06:11	11h 57m	18:09	33m	18:42	35m	19:18	37m	19:55	12h 00m	8h 27m					Sa, 16. Mrz
So, 17. Mrz		03:25* – 04:21*	55m	M <sub>7</sub> bis AN <sub>-</sub>	◒	09:48	02:29	04:23	37m	05:00	35m	05:36	32m	06:09	12h 01m	18:10	33m	18:43	35m	19:19	37m	19:57	11h 56m	8h 23m					So, 17. Mrz
Mo, 18. Mrz		04:08* – 04:18*	10m	M <sub>7</sub> bis AN <sub>-</sub>		10:46	03:25	04:21	37m	04:58	35m	05:34	33m	06:07	12h 04m	18:12	33m	18:45	35m	19:21	37m	19:58	11h 53m	8h 19m					Mo, 18. Mrz
Di, 19. Mrz		—:~:~:~	—	Mond stört		11:53	04:08	04:18	37m	04:56	35m	05:32	33m	06:05	12h 08m	18:13	33m	18:46	36m	19:22	37m	20:00	11h 49m	8h 15m					Di, 19. Mrz
Mi, 20. Mrz		—:~:~:~	—	Mond stört		13:03	04:39	04:16	37m	04:54	35m	05:30	33m	06:03	12h 11m	18:15	33m	18:48	36m	19:24	38m	20:02	11h 46m	8h 11m					Mi, 20. Mrz
Do, 21. Mrz		—:~:~:~	—	Mond stört		14:13	05:03	04:14	37m	04:52	36m	05:28	33m	06:01	12h 15m	18:16	33m	18:49	36m	19:25	38m	20:04	11h 42m	8h 07m					Do, 21. Mrz
Fr, 22. Mrz		—:~:~:~	—	Mond stört		15:22	05:21	04:11	38m	04:50	36m	05:26	33m	05:59	12h 18m	18:18	33m	18:51	36m	19:27	38m	20:05	11h 39m	8h 03m					Fr, 22. Mrz
Sa, 23. Mrz		—:~:~:~	—	Mond stört		16:29	05:36	04:09	38m	04:47	36m	05:24	33m	05:57	12h 22m	18:19	33m	18:52	36m	19:29	38m	20:07	11h 35m	7h 59m					Sa, 23. Mrz
So, 24. Mrz		—:~:~:~	—	Mond stört		17:36	05:49	04:07	38m	04:45	36m	05:21	33m	05:55	12h 25m	18:20	33m	18:54	36m	19:30	38m	20:09	11h 32m	7h 55m					So, 24. Mrz
Mo, 25. Mrz		—:~:~:~	—	Mond stört	○	18:42	06:02	04:04	38m	04:43	36m	05:19	33m	05:53	12h 29m	18:22	33m	18:55	36m	19:32	38m	20:11	11h 28m	7h 51m					Mo, 25. Mrz
Di, 26. Mrz		—:~:~:~	—	Mond stört		19:49	06:15	04:02	38m	04:41	36m	05:17	33m	05:50	12h 32m	18:23	33m	18:57	36m	19:33	39m	20:12	11h 25m	7h 47m					Di, 26. Mrz
Mi, 27. Mrz		20:14 – 20:59	44m	AN <sub>+</sub> bis M <sub>7</sub>		20:59	06:29	04:00	38m	04:39	36m	05:15	33m	05:48	12h 36m	18:25	33m	18:58	36m	19:35	39m	20:14	11h 21m	7h 42m					Mi, 27. Mrz
Do, 28. Mrz		20:16 – 22:11	1h 54m	AN <sub>+</sub> bis M <sub>7</sub>		22:11	06:45	03:57	39m	04:36	36m	05:13	33m	05:46	12h 39m	18:26	33m	19:00	36m	19:37	39m	20:16	11h 18m	7h 38m					Do, 28. Mrz
Fr, 29. Mrz		20:18 – 23:24	3h 06m	AN <sub>+</sub> bis M <sub>7</sub>		23:24	07:05	03:55	39m	04:34	36m	05:11	33m	05:44	12h 43m	18:28	33m	19:01	36m	19:38	39m	20:18	11h 14m	7h 34m					Fr, 29. Mrz
Sa, 30. Mrz		20:20 – 00:37*	4h 16m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	07:32	03:52	39m	04:32	36m	05:09	33m	05:42	12h 46m	18:29	33m	19:03	37m	19:40	39m	20:20	11h 10m	7h 30m					Sa, 30. Mrz
So, 31. Mrz	MESZ	21:22 – 02:43*	5h 21m	AN <sub>+</sub> bis M <sub>7</sub>		01:37	09:09	04:50	39m	05:30	37m	06:07	33m	06:40	12h 50m	19:31	33m	20:04	37m	20:42	40m	21:22	11h 07m	7h 25m					So, 31. Mrz
Mo, 1. Apr	MESZ	21:23 – 03:40*	6h 16m	AN <sub>+</sub> bis M <sub>7</sub>		02:43	09:59	04:47	39m	05:27	37m	06:05	33m	06:38	12h 53m	19:32	33m	20:06	37m	20:43	40m	21:23	11h 03m						

Table with 29 columns (1-29) and 52 rows (1-52). Columns include day of the month, time zones, astronomical data (dusk, moon, dawn), and civil data (sunrise, sunset, twilight). Rows list dates from April 10 to May 29.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
2024	Zeitzone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2024		
			$\Delta t$		Ph.	$\nearrow$	$\searrow$	Astr.	$\Delta t$	Naut.	$\Delta t$	Bürg.	$\Delta t$	$\nearrow$	$\Delta t$	$\searrow$	$\Delta t$	Bürg.	$\Delta t$	Naut.	$\Delta t$	Astr.	$\Delta t$	$\Delta t$		$\Delta t$			
Do, 30. Mai	MESZ	23:53–02:04*	2h 11m	AN <sub>+</sub> bis AN <sub>-</sub>	☾	01:51	12:04	02:07	1h 21m	03:29	53m	04:23	42m	05:05	15h 46m	20:52	42m	21:35	54m	22:29	1h 23m	23:53	8h 12m	2h 11m					Do, 30. Mai
Fr, 31. Mai	MESZ	23:56–02:02*	2h 05m	AN <sub>+</sub> bis AN <sub>-</sub>		02:10	13:26	02:04	1h 23m	03:28	54m	04:22	42m	05:05	15h 48m	20:53	42m	21:36	54m	22:31	1h 24m	23:56	8h 10m	2h 05m					Fr, 31. Mai
Sa, 1. Jun	MESZ	23:59–01:59*	1h 59m	AN <sub>+</sub> bis AN <sub>-</sub>		02:26	14:47	02:02	1h 24m	03:27	54m	04:21	42m	05:04	15h 50m	20:54	43m	21:37	54m	22:32	1h 26m	23:59	8h 09m	1h 59m					Sa, 1. Jun
So, 2. Jun	MESZ	00:02*–01:56*	1h 54m	AN <sub>+</sub> bis AN <sub>-</sub>		02:42	16:08	01:59	1h 26m	03:26	54m	04:20	43m	05:03	15h 51m	20:55	43m	21:38	55m	22:34	1h 28m	00:02*	8h 07m	1h 54m					So, 2. Jun
Mo, 3. Jun	MESZ	00:05*–01:53*	1h 48m	AN <sub>+</sub> bis AN <sub>-</sub>		03:00	17:32	01:56	1h 28m	03:24	55m	04:20	43m	05:03	15h 53m	20:56	43m	21:39	55m	22:35	1h 30m	00:05*	8h 06m	1h 48m					Mo, 3. Jun
Di, 4. Jun	MESZ	00:08*–01:50*	1h 42m	AN <sub>+</sub> bis AN <sub>-</sub>		03:20	18:57	01:53	1h 30m	03:23	55m	04:19	43m	05:02	15h 54m	20:57	43m	21:40	55m	22:36	1h 32m	00:08*	8h 04m	1h 42m					Di, 4. Jun
Mi, 5. Jun	MESZ	00:12*–01:48*	1h 36m	AN <sub>+</sub> bis AN <sub>-</sub>		03:46	20:21	01:50	1h 32m	03:23	55m	04:18	43m	05:02	15h 55m	20:58	43m	21:41	56m	22:37	1h 34m	00:12*	8h 03m	1h 36m					Mi, 5. Jun
Do, 6. Jun	MESZ	00:15*–01:45*	1h 30m	AN <sub>+</sub> bis AN <sub>-</sub>	☉	04:20	21:38	01:48	1h 34m	03:22	56m	04:18	43m	05:01	15h 57m	20:58	43m	21:42	56m	22:39	1h 36m	00:15*	8h 02m	1h 30m					Do, 6. Jun
Fr, 7. Jun	MESZ	00:18*–01:42*	1h 24m	AN <sub>+</sub> bis AN <sub>-</sub>		05:06	22:43	01:45	1h 36m	03:21	56m	04:17	43m	05:01	15h 58m	20:59	43m	21:43	56m	22:40	1h 38m	00:18*	8h 01m	1h 24m					Fr, 7. Jun
Sa, 8. Jun	MESZ	00:21*–01:39*	1h 18m	AN <sub>+</sub> bis AN <sub>-</sub>		06:05	23:32	01:42	1h 38m	03:20	56m	04:17	43m	05:01	15h 59m	21:00	43m	21:44	56m	22:41	1h 40m	00:21*	8h 00m	1h 18m					Sa, 8. Jun
So, 9. Jun	MESZ	00:24*–01:37*	1h 12m	AN <sub>+</sub> bis AN <sub>-</sub>		07:14	—:—	01:39	1h 40m	03:20	56m	04:16	43m	05:00	16h 00m	21:01	44m	21:45	57m	22:42	1h 42m	00:24*	7h 59m	1h 12m					So, 9. Jun
Mo, 10. Jun	MESZ	00:34*–01:34*	1h 00m	M <sub>\</sub> bis AN <sub>-</sub>		08:27	00:08	01:37	1h 42m	03:19	57m	04:16	44m	05:00	16h 01m	21:01	44m	21:45	57m	22:43	1h 44m	00:27*	7h 58m	1h 06m					Mo, 10. Jun
Di, 11. Jun	MESZ	00:54*–01:31*	37m	M <sub>\</sub> bis AN <sub>-</sub>		09:40	00:34	01:34	1h 44m	03:18	57m	04:16	44m	05:00	16h 02m	21:02	44m	21:46	57m	22:44	1h 46m	00:30*	7h 57m	1h 00m					Di, 11. Jun
Mi, 12. Jun	MESZ	01:09*–01:29*	19m	M <sub>\</sub> bis AN <sub>-</sub>		10:51	00:54	01:31	1h 46m	03:18	57m	04:15	44m	05:00	16h 02m	21:03	44m	21:47	57m	22:44	1h 49m	00:33*	7h 56m	55m					Mi, 12. Jun
Do, 13. Jun	MESZ	01:23*–01:26*	2m	M <sub>\</sub> bis AN <sub>-</sub>		11:59	01:09	01:29	1h 49m	03:18	57m	04:15	44m	04:59	16h 03m	21:03	44m	21:47	57m	22:45	1h 51m	00:36*	7h 56m	49m					Do, 13. Jun
Fr, 14. Jun	MESZ	—:—:—:—	–	Mond stört	☾	13:06	01:23	01:26	1h 51m	03:17	57m	04:15	44m	04:59	16h 04m	21:04	44m	21:48	57m	22:46	1h 53m	00:39*	7h 55m	44m					Fr, 14. Jun
Sa, 15. Jun	MESZ	—:—:—:—	–	Mond stört		14:12	01:36	01:24	1h 53m	03:17	57m	04:15	44m	04:59	16h 04m	21:04	44m	21:48	58m	22:47	1h 55m	00:42*	7h 55m	39m					Sa, 15. Jun
So, 16. Jun	MESZ	—:~:~:~:~	–	Mond stört		15:19	01:49	01:21	1h 55m	03:17	58m	04:15	44m	04:59	16h 05m	21:04	44m	21:49	58m	22:47	1h 57m	00:45*	7h 54m	34m					So, 16. Jun
Mo, 17. Jun	MESZ	—:~:~:~:~	–	Mond stört		16:28	02:03	01:19	1h 57m	03:17	58m	04:15	44m	04:59	16h 05m	21:05	44m	21:49	58m	22:48	1h 59m	00:47*	7h 54m	30m					Mo, 17. Jun
Di, 18. Jun	MESZ	—:~:~:~:~	–	Mond stört		17:40	02:19	01:17	1h 59m	03:17	58m	04:15	44m	04:59	16h 05m	21:05	44m	21:50	58m	22:48	2h 00m	00:49*	7h 54m	26m					Di, 18. Jun
Mi, 19. Jun	MESZ	—:~:~:~:~	–	Mond stört		18:55	02:40	01:16	2h 00m	03:17	58m	04:15	44m	05:00	16h 05m	21:05	44m	21:50	58m	22:48	2h 01m	00:50*	7h 54m	24m					Mi, 19. Jun
Do, 20. Jun	MESZ	—:~:~:~:~	–	Mond stört		20:10	03:07	01:15	2h 01m	03:17	58m	04:15	44m	05:00	16h 05m	21:06	44m	21:50	58m	22:49	2h 02m	00:51*	7h 54m	24m					Do, 20. Jun
Fr, 21. Jun	MESZ	—:~:~:~:~	–	Mond stört		21:18	03:45	01:15	2h 02m	03:17	58m	04:15	44m	05:00	16h 05m	21:06	44m	21:50	58m	22:49	2h 01m	00:50*	7h 54m	25m					Fr, 21. Jun
Sa, 22. Jun	MESZ	—:~:~:~:~	–	Mond stört	☉	22:15	04:37	01:16	2h 01m	03:17	58m	04:16	44m	05:00	16h 05m	21:06	44m	21:51	58m	22:49	2h 00m	00:49*	7h 54m	27m					Sa, 22. Jun
So, 23. Jun	MESZ	—:~:~:~:~	–	Mond stört		22:59	05:45	01:17	2h 00m	03:18	58m	04:16	44m	05:00	16h 05m	21:06	44m	21:51	58m	22:49	1h 59m	00:48*	7h 54m	31m					So, 23. Jun
Mo, 24. Jun	MESZ	—:~:~:~:~	–	Mond stört		23:32	07:04	01:19	1h 59m	03:18	58m	04:16	44m	05:01	16h 05m	21:06	44m	21:51	58m	22:49	1h 57m	00:46*	7h 55m	35m					Mo, 24. Jun
Di, 25. Jun	MESZ	—:~:~:~:~	–	Mond stört		23:56	08:28	01:21	1h 57m	03:19	58m	04:17	44m	05:01	16h 04m	21:06	44m	21:51	58m	22:49	1h 55m	00:44*	7h 55m	40m					Di, 25. Jun
Mi, 26. Jun	MESZ	—:~:~:~:~	–	Mond stört		—:—	09:52	01:24	1h 55m	03:19	58m	04:17	44m	05:02	16h 04m	21:06	44m	21:51	57m	22:48	1h 53m	00:42*	7h 55m	45m					Mi, 26. Jun
Do, 27. Jun	MESZ	—:~:~:~:~	–	Mond stört		00:16	11:15	01:27	1h 53m	03:20	57m	04:18	44m	05:02	16h 04m	21:06	44m	21:50	57m	22:48	1h 50m	00:39*	7h 56m	50m					Do, 27. Jun
Fr, 28. Jun	MESZ	00:36*–00:49*	12m	AN <sub>+</sub> bis M <sub>7</sub>	☾	00:33	12:36	01:30	1h 50m	03:20	57m	04:18	44m	05:03	16h 03m	21:06	44m	21:50	57m	22:48	1h 48m	00:36*	7h 57m	56m					Fr, 28. Jun
Sa, 29. Jun	MESZ	00:34*–01:05*	31m	AN <sub>+</sub> bis M <sub>7</sub>		00:49	13:56	01:33	1h 48m	03:21	57m	04:19	44m	05:03	16h 02m	21:06	44m	21:50	57m	22:47	1h 46m	00:34*	7h 57m	1h 01m					Sa, 29. Jun
So, 30. Jun	MESZ	00:31*–01:24*	52m	AN <sub>+</sub> bis M <sub>7</sub>		01:05	15:18	01:36	1h 46m	03:22	57m	04:19	44m	05:04	16h 01m	21:06	44m	21:50	57m	22:47	1h 44m	00:31*	7h 58m	1h 07m					So, 30. Jun
Mo, 1. Jul	MESZ	00:28*–01:42*	1h 13m	AN <sub>+</sub> bis AN <sub>-</sub>		01:24	16:40	01:39	1h 44m	03:23	57m	04:20	44m	05:04	16h 01m	21:05	44m	21:49	57m	22:46	1h 42m	00:28*	7h 59m	1h 13m					Mo, 1. Jul
Di, 2. Jul	MESZ	00:26*–01:45*	1h 19m	AN <sub>+</sub> bis AN <sub>-</sub>		01:47	18:03	01:42	1h 42m	03:24	57m	04:21	44m	05:05	16h 00m	21:05	43m	21:49	56m	22:46	1h 39m	00:26*	8h 00m	1h 19m					Di, 2. Jul
Mi, 3. Jul	MESZ	00:23*–01:48*	1h 25m	AN <sub>+</sub> bis AN <sub>-</sub>		02:17	19:21	01:45	1h 39m	03:25	56m	04:22	43m	05:06	15h 59m	21:05	43m	21:49	56m	22:45	1h 37m	00:23*	8h 01m	1h 25m					Mi, 3. Jul
Do, 4. Jul	MESZ	00:20*–01:51*	1h 31m	AN <sub>+</sub> bis AN <sub>-</sub>		02:58	20:30	01:48	1h 37m	03:26	56m	04:22	43m	05:06	15h 58m	21:04	43m	21:48	56m	22:44	1h 35m	00:20*	8h 02m	1h 31m					Do, 4. Jul
Fr, 5. Jul	MESZ	00:17*–01:54*	1h 36m	AN <sub>+</sub> bis AN <sub>-</sub>		03:51	21:25	01:51	1h 35m	03:27	56m	04:23	43m	05:07	15h 56m	21:04	43m	21:48	56m	22:44	1h 33m	00:17*	8h 03m	1h 36m					Fr, 5. Jul
Sa, 6. Jul	MESZ	00:15*–01:58*	1h 42m	AN <sub>+</sub> bis AN <sub>-</sub>	☉	04:56	22:05	01:54	1h 33m	03:28	56m	04:24	43m	05:08	15h 55m	21:03	43m	21:47	55m	22:43	1h 31m	00:15*	8h 05m	1h 42m					Sa, 6. Jul
So, 7. Jul	MESZ	00:12*–02:01*	1h 48m	AN <sub>+</sub> bis AN <sub>-</sub>		06:08	22:35	01:58	1h 31m	03:29	55m	04:25	43m	05:09	15h 54m	21:03	43m	21:46	55m	22:42	1h 30m	00:12*	8h 06m	1h 48m					So, 7. Jul
Mo, 8. Jul	MESZ	00:09*–02:04*	1h 54m	AN <sub>+</sub> bis AN <sub>-</sub>		07:22	22:57	02:01	1h 30m	03:31	55m	04:26	43m	05:09	15h 52m	21:02	43m	21:46	55m	22:41	1h 28m	00:09*	8h 07m	1h 54m					Mo, 8. Jul
Di, 9. Jul	MESZ	00:06*–02:07*	2h 00m	AN <sub>+</sub> bis AN <sub>-</sub>		08:35	23:14	02:04	1h 28m	03:32	55m	04:27	43m	05:10	15h 51m	21:02	43m	21:45	54m	22:40	1h 26m	00:06*	8h 09m	2h 00m					Di, 9. Jul
Mi, 10. Jul	MESZ	00:03*–02:10*	2h 06m																										

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
2024	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2024			
			$\Delta t$		Ph.	$\nearrow$	$\searrow$	Astr.	$\Delta t$	Naut.	$\Delta t$	Bürg.	$\Delta t$	$\nearrow$	$\Delta t$	$\searrow$	$\Delta t$	Bürg.	$\Delta t$	Naut.	$\Delta t$	Astr.	$\Delta t$	$\Delta t$		$\Delta t$			
Fr, 19. Jul	MESZ	—:—:—:—	—	Mond stört		20:04	02:23	02:34	1h 12m	03:47	51m	04:39	41m	05:20	15h 33m	20:53	41m	21:35	51m	22:26	1h 11m	23:38	8h 28m	2h 59m					Fr, 19. Jul
Sa, 20. Jul	MESZ	—:—:—:—	—	Mond stört		20:54	03:24	02:37	1h 11m	03:49	51m	04:40	41m	05:22	15h 30m	20:52	41m	21:34	50m	22:25	1h 10m	23:35	8h 30m	3h 05m					Sa, 20. Jul
So, 21. Jul	MESZ	—:~:~:~:~	—	Mond stört	○	21:31	04:40	02:40	1h 10m	03:51	50m	04:42	41m	05:23	15h 28m	20:51	41m	21:32	50m	22:23	1h 09m	23:32	8h 32m	3h 11m					So, 21. Jul
Mo, 22. Jul	MESZ	—:~:~:~:~	—	Mond stört		21:59	06:05	02:43	1h 09m	03:52	50m	04:43	41m	05:24	15h 26m	20:50	40m	21:31	50m	22:21	1h 07m	23:29	8h 34m	3h 17m					Mo, 22. Jul
Di, 23. Jul	MESZ	—:~:~:~:~	—	Mond stört		22:20	07:32	02:46	1h 07m	03:54	50m	04:44	40m	05:25	15h 23m	20:49	40m	21:30	49m	22:20	1h 06m	23:26	8h 37m	3h 22m					Di, 23. Jul
Mi, 24. Jul	MESZ	—:~:~:~:~	—	Mond stört		22:38	08:58	02:49	1h 06m	03:56	49m	04:46	40m	05:26	15h 21m	20:48	40m	21:28	49m	22:18	1h 05m	23:23	8h 39m	3h 28m					Mi, 24. Jul
Do, 25. Jul	MESZ	—:~:~:~:~	—	Mond stört		22:55	10:22	02:52	1h 05m	03:58	49m	04:47	40m	05:28	15h 19m	20:47	40m	21:27	49m	22:16	1h 04m	23:21	8h 42m	3h 34m					Do, 25. Jul
Fr, 26. Jul	MESZ	—:~:~:~:~	—	Mond stört		23:11	11:44	02:55	1h 04m	03:59	49m	04:49	40m	05:29	15h 16m	20:45	40m	21:26	48m	22:14	1h 03m	23:18	8h 44m	3h 39m					Fr, 26. Jul
Sa, 27. Jul	MESZ	23:15–23:29	14m	AN+ bis M <sub>7</sub>		23:29	13:06	02:58	1h 03m	04:01	48m	04:50	40m	05:30	15h 14m	20:44	39m	21:24	48m	22:12	1h 02m	23:15	8h 47m	3h 45m					Sa, 27. Jul
So, 28. Jul	MESZ	23:12–23:51	38m	AN+ bis M <sub>7</sub>	◐	23:51	14:29	03:00	1h 02m	04:03	48m	04:51	39m	05:31	15h 11m	20:43	39m	21:23	47m	22:10	1h 01m	23:12	8h 49m	3h 50m					So, 28. Jul
Mo, 29. Jul	MESZ	23:09–00:18*	1h 08m	AN+ bis M <sub>7</sub>		—:—	15:51	03:03	1h 01m	04:05	47m	04:53	39m	05:33	15h 08m	20:41	39m	21:21	47m	22:09	1h 00m	23:09	8h 52m	3h 56m					Mo, 29. Jul
Di, 30. Jul	MESZ	23:07–00:55*	1h 48m	AN+ bis M <sub>7</sub>		00:18	17:11	03:06	1h 00m	04:07	47m	04:54	39m	05:34	15h 06m	20:40	39m	21:19	47m	22:07	59m	23:07	8h 55m	4h 02m					Di, 30. Jul
Mi, 31. Jul	MESZ	23:04–01:43*	2h 39m	AN+ bis M <sub>7</sub>		00:55	18:22	03:09	59m	04:09	47m	04:56	39m	05:35	15h 03m	20:39	39m	21:18	46m	22:05	59m	23:04	8h 57m	4h 07m					Mi, 31. Jul
Do, 1. Aug	MESZ	23:01–02:44*	3h 42m	AN+ bis M <sub>7</sub>		01:43	19:20	03:11	59m	04:10	46m	04:57	39m	05:36	15h 00m	20:37	38m	21:16	46m	22:03	58m	23:01	9h 00m	4h 13m					Do, 1. Aug
Fr, 2. Aug	MESZ	22:58–03:17*	4h 18m	AN+ bis AN <sub>-</sub>		02:44	20:04	03:14	58m	04:12	46m	04:59	38m	05:38	14h 58m	20:36	38m	21:15	46m	22:01	57m	22:58	9h 03m	4h 18m					Fr, 2. Aug
Sa, 3. Aug	MESZ	22:55–03:19*	4h 23m	AN+ bis AN <sub>-</sub>		03:53	20:37	03:17	57m	04:14	46m	05:00	38m	05:39	14h 55m	20:34	38m	21:13	45m	21:59	56m	22:55	9h 06m	4h 23m					Sa, 3. Aug
So, 4. Aug	MESZ	22:53–03:22*	4h 29m	AN+ bis AN <sub>-</sub>	●	05:07	21:01	03:19	56m	04:16	45m	05:02	38m	05:40	14h 52m	20:33	38m	21:11	45m	21:57	55m	22:53	9h 08m	4h 29m					So, 4. Aug
Mo, 5. Aug	MESZ	22:50–03:25*	4h 34m	AN+ bis AN <sub>-</sub>		06:20	21:20	03:22	55m	04:18	45m	05:03	38m	05:42	14h 49m	20:31	38m	21:09	45m	21:55	55m	22:50	9h 11m	4h 34m					Mo, 5. Aug
Di, 6. Aug	MESZ	22:47–03:27*	4h 40m	AN+ bis AN <sub>-</sub>		07:31	21:35	03:25	55m	04:20	45m	05:05	38m	05:43	14h 46m	20:30	38m	21:08	44m	21:53	54m	22:47	9h 14m	4h 40m					Di, 6. Aug
Mi, 7. Aug	MESZ	22:44–03:30*	4h 45m	AN+ bis AN <sub>-</sub>		08:39	21:48	03:27	54m	04:22	44m	05:06	38m	05:44	14h 43m	20:28	37m	21:06	44m	21:50	53m	22:44	9h 17m	4h 45m					Mi, 7. Aug
Do, 8. Aug	MESZ	22:41–03:32*	4h 50m	AN+ bis AN <sub>-</sub>		09:45	22:00	03:30	53m	04:23	44m	05:08	37m	05:46	14h 40m	20:26	37m	21:04	44m	21:48	53m	22:41	9h 20m	4h 50m					Do, 8. Aug
Fr, 9. Aug	MESZ	22:39–03:35*	4h 55m	AN+ bis AN <sub>-</sub>		10:51	22:13	03:32	53m	04:25	44m	05:09	37m	05:47	14h 37m	20:25	37m	21:02	43m	21:46	52m	22:39	9h 23m	4h 55m					Fr, 9. Aug
Sa, 10. Aug	MESZ	22:36–03:37*	5h 01m	AN+ bis AN <sub>-</sub>		11:58	22:27	03:35	52m	04:27	43m	05:11	37m	05:48	14h 34m	20:23	37m	21:00	43m	21:44	51m	22:36	9h 26m	5h 01m					Sa, 10. Aug
So, 11. Aug	MESZ	22:44–03:39*	4h 55m	M <sub>7</sub> bis AN <sub>-</sub>		13:06	22:44	03:37	51m	04:29	43m	05:13	37m	05:50	14h 31m	20:21	37m	20:59	43m	21:42	51m	22:33	9h 29m	5h 06m					So, 11. Aug
Mo, 12. Aug	MESZ	23:04–03:42*	4h 37m	M <sub>7</sub> bis AN <sub>-</sub>	◑	14:17	23:04	03:39	51m	04:31	43m	05:14	37m	05:51	14h 28m	20:20	36m	20:57	43m	21:40	50m	22:30	9h 32m	5h 11m					Mo, 12. Aug
Di, 13. Aug	MESZ	23:32–03:44*	4h 11m	M <sub>7</sub> bis AN <sub>-</sub>		15:30	23:32	03:42	50m	04:33	43m	05:16	37m	05:53	14h 25m	20:18	36m	20:55	42m	21:38	50m	22:28	9h 35m	5h 16m					Di, 13. Aug
Mi, 14. Aug	MESZ	00:11*–03:47*	3h 35m	M <sub>7</sub> bis AN <sub>-</sub>		16:42	—:—	03:44	50m	04:34	42m	05:17	36m	05:54	14h 22m	20:16	36m	20:53	42m	21:35	49m	22:25	9h 39m	5h 21m					Mi, 14. Aug
Do, 15. Aug	MESZ	01:04*–03:49*	2h 44m	M <sub>7</sub> bis AN <sub>-</sub>		17:48	00:11	03:47	49m	04:36	42m	05:19	36m	05:55	14h 19m	20:14	36m	20:51	42m	21:33	49m	22:22	9h 42m	5h 26m					Do, 15. Aug
Fr, 16. Aug	MESZ	02:13*–03:51*	1h 38m	M <sub>7</sub> bis AN <sub>-</sub>		18:44	01:04	03:49	49m	04:38	42m	05:20	36m	05:57	14h 16m	20:13	36m	20:49	41m	21:31	48m	22:19	9h 45m	5h 31m					Fr, 16. Aug
Sa, 17. Aug	MESZ	03:34*–03:54*	19m	M <sub>7</sub> bis AN <sub>-</sub>		19:26	02:13	03:51	48m	04:40	41m	05:22	36m	05:58	14h 12m	20:11	36m	20:47	41m	21:29	47m	22:17	9h 48m	5h 36m					Sa, 17. Aug
So, 18. Aug	MESZ	—:~:~:~:~	—	Mond stört		19:58	03:34	03:54	48m	04:42	41m	05:23	36m	05:59	14h 09m	20:09	36m	20:45	41m	21:27	47m	22:14	9h 51m	5h 41m					So, 18. Aug
Mo, 19. Aug	MESZ	—:~:~:~:~	—	Mond stört	○	20:22	05:02	03:56	47m	04:43	41m	05:25	36m	06:01	14h 06m	20:07	35m	20:43	41m	21:24	47m	22:11	9h 54m	5h 46m					Mo, 19. Aug
Di, 20. Aug	MESZ	—:~:~:~:~	—	Mond stört		20:42	06:31	03:58	47m	04:45	41m	05:26	35m	06:02	14h 03m	20:05	35m	20:41	40m	21:22	46m	22:09	9h 58m	5h 51m					Di, 20. Aug
Mi, 21. Aug	MESZ	—:~:~:~:~	—	Mond stört		21:00	07:58	04:00	46m	04:47	40m	05:28	35m	06:04	13h 59m	20:03	35m	20:39	40m	21:20	46m	22:06	10h 01m	5h 56m					Mi, 21. Aug
Do, 22. Aug	MESZ	—:~:~:~:~	—	Mond stört		21:16	09:24	04:02	46m	04:49	40m	05:29	35m	06:05	13h 56m	20:02	35m	20:37	40m	21:18	45m	22:03	10h 04m	6h 01m					Do, 22. Aug
Fr, 23. Aug	MESZ	—:~:~:~:~	—	Mond stört		21:34	10:49	04:05	45m	04:50	40m	05:31	35m	06:06	13h 53m	20:00	35m	20:35	40m	21:15	45m	22:01	10h 08m	6h 06m					Fr, 23. Aug
Sa, 24. Aug	MESZ	—:~:~:~:~	—	Mond stört		21:55	12:14	04:07	45m	04:52	40m	05:32	35m	06:08	13h 50m	19:58	35m	20:33	39m	21:13	44m	21:58	10h 11m	6h 10m					Sa, 24. Aug
So, 25. Aug	MESZ	21:55–22:20	24m	AN+ bis M <sub>7</sub>		22:20	13:39	04:09	44m	04:54	40m	05:34	35m	06:09	13h 46m	19:56	35m	20:31	39m	21:11	44m	21:55	10h 14m	6h 15m					So, 25. Aug
Mo, 26. Aug	MESZ	21:53–22:54	1h 01m	AN+ bis M <sub>7</sub>	◐	22:54	15:01	04:11	44m	04:55	39m	05:35	35m	06:10	13h 43m	19:54	34m	20:29	39m	21:08	44m	21:53	10h 17m	6h 20m					Mo, 26. Aug
Di, 27. Aug	MESZ	21:50–23:39	1h 48m	AN+ bis M <sub>7</sub>		23:39	16:15	04:13	44m	04:57	39m	05:37	35m	06:12	13h 40m	19:52	34m	20:27	39m	21:06	43m	21:50	10h 21m	6h 25m					Di, 27. Aug
Mi, 28. Aug	MESZ	21:47–00:35*	2h 48m	AN+ bis M <sub>7</sub>		—:—	17:18	04:15	43m	04:59	39m	05:38	34m	06:13	13h 36m	19:50	34m	20:25	39m	21:04	43m	21:47	10h 24m	6h 29m					Mi, 28. Aug
Do, 29. Aug	MESZ	21:45–01:42*	3h 57m	AN+ bis M <sub>7</sub>		00:35	18:05	04:17	43m	05:01	39m	05:40	34m	06:15	13h 33m	19:48	34m	20:23	38m	21:02	43m	21:45	10h 28m	6h 34m					

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
2024	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2024		
			$\Delta t$		Ph.	$\nearrow$	$\searrow$	Astr.	$\Delta t$	Naut.	$\Delta t$	Bürg.	$\Delta t$	$\nearrow$	$\Delta t$	$\searrow$	$\Delta t$	Bürg.	$\Delta t$	Naut.	$\Delta t$	Astr.	$\Delta t$	$\Delta t$		$\Delta t$		
Sa, 7. Sep	MESZ	21:22 – 04:36*	7h 14m	AN <sub>+</sub> bis AN <sub>-</sub>		10:55	20:49	04:35	40m	05:15	37m	05:53	33m	06:27	13h 02m	19:30	33m	20:04	37m	20:41	40m	21:22	10h 58m	7h 14m				Sa, 7. Sep
So, 8. Sep	MESZ	21:19 – 04:38*	7h 19m	AN <sub>+</sub> bis AN <sub>-</sub>		12:04	21:08	04:36	40m	05:17	37m	05:55	33m	06:28	12h 59m	19:28	33m	20:01	37m	20:39	40m	21:19	11h 02m	7h 19m				So, 8. Sep
Mo, 9. Sep	MESZ	21:32 – 04:40*	7h 08m	M <sub>\</sub> bis AN <sub>-</sub>		13:16	21:32	04:38	40m	05:19	37m	05:56	33m	06:30	12h 55m	19:26	33m	19:59	37m	20:36	40m	21:17	11h 05m	7h 23m				Mo, 9. Sep
Di, 10. Sep	MESZ	22:05 – 04:42*	6h 36m	M <sub>\</sub> bis AN <sub>-</sub>		14:27	22:05	04:40	40m	05:20	37m	05:57	33m	06:31	12h 52m	19:24	33m	19:57	37m	20:34	39m	21:14	11h 09m	7h 27m				Di, 10. Sep
Mi, 11. Sep	MESZ	22:50 – 04:44*	5h 53m	M <sub>\</sub> bis AN <sub>-</sub>	☾	15:34	22:50	04:42	39m	05:22	37m	05:59	33m	06:33	12h 48m	19:21	33m	19:55	36m	20:32	39m	21:12	11h 12m	7h 31m				Mi, 11. Sep
Do, 12. Sep	MESZ	23:50 – 04:45*	4h 54m	M <sub>\</sub> bis AN <sub>-</sub>		16:33	23:50	04:44	39m	05:23	37m	06:00	33m	06:34	12h 45m	19:19	33m	19:53	36m	20:30	39m	21:09	11h 15m	7h 36m				Do, 12. Sep
Fr, 13. Sep	MESZ	01:05* – 04:47*	3h 42m	M <sub>\</sub> bis AN <sub>-</sub>		17:20	—:—	04:45	39m	05:25	36m	06:02	33m	06:35	12h 41m	19:17	33m	19:51	36m	20:27	39m	21:07	11h 19m	7h 40m				Fr, 13. Sep
Sa, 14. Sep	MESZ	02:29* – 04:49*	2h 20m	M <sub>\</sub> bis AN <sub>-</sub>		17:56	01:05	04:47	39m	05:26	36m	06:03	33m	06:37	12h 38m	19:15	33m	19:49	36m	20:25	39m	21:04	11h 22m	7h 44m				Sa, 14. Sep
So, 15. Sep	MESZ	03:56* – 04:51*	54m	M <sub>\</sub> bis AN <sub>-</sub>		18:23	02:29	04:49	39m	05:28	36m	06:05	33m	06:38	12h 35m	19:13	33m	19:46	36m	20:23	38m	21:02	11h 26m	7h 48m				So, 15. Sep
Mo, 16. Sep	MESZ	—:—:—:—	–	Mond stört		18:44	03:56	04:51	38m	05:29	36m	06:06	33m	06:39	12h 31m	19:11	33m	19:44	36m	20:21	38m	20:59	11h 29m	7h 52m				Mo, 16. Sep
Di, 17. Sep	MESZ	—:—:—:—	–	Mond stört		19:02	05:24	04:52	38m	05:31	36m	06:07	33m	06:41	12h 28m	19:09	33m	19:42	36m	20:18	38m	20:57	11h 33m	7h 56m				Di, 17. Sep
Mi, 18. Sep	MESZ	—:—:~:~:~	–	Mond stört	☉	19:20	06:52	04:54	38m	05:33	36m	06:09	33m	06:42	12h 24m	19:07	33m	19:40	36m	20:16	38m	20:55	11h 36m	8h 00m				Mi, 18. Sep
Do, 19. Sep	MESZ	—:~:~:~:~	–	Mond stört		19:37	08:20	04:56	38m	05:34	36m	06:10	33m	06:44	12h 21m	19:05	33m	19:38	36m	20:14	38m	20:52	11h 40m	8h 05m				Do, 19. Sep
Fr, 20. Sep	MESZ	—:~:~:~:~	–	Mond stört		19:57	09:48	04:57	38m	05:36	36m	06:12	33m	06:45	12h 17m	19:03	33m	19:36	36m	20:12	38m	20:50	11h 43m	8h 09m				Fr, 20. Sep
Sa, 21. Sep	MESZ	—:~:~:~:~	–	Mond stört		20:21	11:16	04:59	38m	05:37	36m	06:13	33m	06:46	12h 14m	19:01	33m	19:34	36m	20:10	37m	20:48	11h 47m	8h 12m				Sa, 21. Sep
So, 22. Sep	MESZ	20:45 – 20:52	6m	AN <sub>+</sub> bis M <sub>7</sub>		20:52	12:43	05:01	37m	05:39	36m	06:15	33m	06:48	12h 10m	18:58	33m	19:31	35m	20:07	37m	20:45	11h 50m	8h 16m				So, 22. Sep
Mo, 23. Sep	MESZ	20:43 – 21:34	50m	AN <sub>+</sub> bis M <sub>7</sub>		21:34	14:04	05:02	37m	05:40	35m	06:16	33m	06:49	12h 07m	18:56	33m	19:29	35m	20:05	37m	20:43	11h 54m	8h 20m				Mo, 23. Sep
Di, 24. Sep	MESZ	20:41 – 22:28	1h 47m	AN <sub>+</sub> bis M <sub>7</sub>	☾	22:28	15:12	05:04	37m	05:41	35m	06:17	33m	06:51	12h 03m	18:54	33m	19:27	35m	20:03	37m	20:41	11h 57m	8h 24m				Di, 24. Sep
Mi, 25. Sep	MESZ	20:38 – 23:33	2h 54m	AN <sub>+</sub> bis M <sub>7</sub>		23:33	16:05	05:05	37m	05:43	35m	06:19	33m	06:52	12h 00m	18:52	32m	19:25	35m	20:01	37m	20:38	12h 01m	8h 28m				Mi, 25. Sep
Do, 26. Sep	MESZ	20:36 – 00:44*	4h 08m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	16:44	05:07	37m	05:44	35m	06:20	33m	06:53	11h 56m	18:50	32m	19:23	35m	19:59	37m	20:36	12h 04m	8h 32m				Do, 26. Sep
Fr, 27. Sep	MESZ	20:34 – 01:57*	5h 23m	AN <sub>+</sub> bis M <sub>7</sub>		00:44	17:12	05:09	37m	05:46	35m	06:22	33m	06:55	11h 53m	18:48	32m	19:21	35m	19:57	37m	20:34	12h 08m	8h 36m				Fr, 27. Sep
Sa, 28. Sep	MESZ	20:32 – 03:09*	6h 37m	AN <sub>+</sub> bis M <sub>7</sub>		01:57	17:33	05:10	37m	05:47	35m	06:23	33m	06:56	11h 49m	18:46	32m	19:19	35m	19:54	37m	20:32	12h 11m	8h 40m				Sa, 28. Sep
So, 29. Sep	MESZ	20:29 – 04:18*	7h 48m	AN <sub>+</sub> bis M <sub>7</sub>		03:09	17:50	05:12	37m	05:49	35m	06:24	33m	06:58	11h 46m	18:44	32m	19:17	35m	19:52	37m	20:29	12h 15m	8h 43m				So, 29. Sep
Mo, 30. Sep	MESZ	20:27 – 05:15*	8h 47m	AN <sub>+</sub> bis AN <sub>-</sub>		04:18	18:04	05:13	37m	05:50	35m	06:26	33m	06:59	11h 42m	18:42	32m	19:15	35m	19:50	36m	20:27	12h 18m	8h 47m				Mo, 30. Sep
Di, 1. Okt	MESZ	20:25 – 05:16*	8h 51m	AN <sub>+</sub> bis AN <sub>-</sub>		05:25	18:17	05:15	36m	05:52	35m	06:27	33m	07:00	11h 39m	18:40	32m	19:13	35m	19:48	36m	20:25	12h 22m	8h 51m				Di, 1. Okt
Mi, 2. Okt	MESZ	20:23 – 05:18*	8h 55m	AN <sub>+</sub> bis AN <sub>-</sub>	☀	06:31	18:29	05:16	36m	05:53	35m	06:29	33m	07:02	11h 35m	18:38	32m	19:11	35m	19:46	36m	20:23	12h 25m	8h 55m				Mi, 2. Okt
Do, 3. Okt	MESZ	20:21 – 05:19*	8h 58m	AN <sub>+</sub> bis AN <sub>-</sub>		07:38	18:42	05:18	36m	05:55	35m	06:30	33m	07:03	11h 32m	18:36	32m	19:09	35m	19:44	36m	20:21	12h 29m	8h 58m				Do, 3. Okt
Fr, 4. Okt	MESZ	20:19 – 05:21*	9h 02m	AN <sub>+</sub> bis AN <sub>-</sub>		08:45	18:56	05:19	36m	05:56	35m	06:32	33m	07:05	11h 28m	18:34	33m	19:07	35m	19:42	36m	20:19	12h 32m	9h 02m				Fr, 4. Okt
Sa, 5. Okt	MESZ	20:16 – 05:22*	9h 05m	AN <sub>+</sub> bis AN <sub>-</sub>		09:54	19:13	05:21	36m	05:58	35m	06:33	33m	07:06	11h 25m	18:32	33m	19:05	35m	19:40	36m	20:16	12h 35m	9h 05m				Sa, 5. Okt
So, 6. Okt	MESZ	20:14 – 05:24*	9h 09m	AN <sub>+</sub> bis AN <sub>-</sub>		11:05	19:36	05:22	36m	05:59	35m	06:34	33m	07:08	11h 21m	18:30	33m	19:03	35m	19:38	36m	20:14	12h 39m	9h 09m				So, 6. Okt
Mo, 7. Okt	MESZ	20:12 – 05:25*	9h 13m	AN <sub>+</sub> bis AN <sub>-</sub>		12:16	20:05	05:24	36m	06:00	35m	06:36	33m	07:09	11h 18m	18:28	33m	19:01	35m	19:36	36m	20:12	12h 42m	9h 13m				Mo, 7. Okt
Di, 8. Okt	MESZ	20:45 – 05:27*	8h 41m	M <sub>\</sub> bis AN <sub>-</sub>		13:24	20:45	05:25	36m	06:02	35m	06:37	33m	07:10	11h 15m	18:26	33m	18:59	35m	19:34	36m	20:10	12h 46m	9h 16m				Di, 8. Okt
Mi, 9. Okt	MESZ	21:38 – 05:28*	7h 50m	M <sub>\</sub> bis AN <sub>-</sub>		14:25	21:38	05:27	36m	06:03	35m	06:39	33m	07:12	11h 11m	18:24	33m	18:57	35m	19:32	36m	20:08	12h 49m	9h 20m				Mi, 9. Okt
Do, 10. Okt	MESZ	22:45 – 05:30*	6h 44m	M <sub>\</sub> bis AN <sub>-</sub>	☾	15:15	22:45	05:28	36m	06:05	35m	06:40	33m	07:13	11h 08m	18:22	33m	18:55	35m	19:30	36m	20:06	12h 53m	9h 23m				Do, 10. Okt
Fr, 11. Okt	MESZ	00:03* – 05:31*	5h 28m	M <sub>\</sub> bis AN <sub>-</sub>		15:54	—:—	05:30	36m	06:06	35m	06:42	33m	07:15	11h 04m	18:20	33m	18:53	35m	19:28	36m	20:04	12h 56m	9h 26m				Fr, 11. Okt
Sa, 12. Okt	MESZ	01:26* – 05:33*	4h 06m	M <sub>\</sub> bis AN <sub>-</sub>		16:23	00:03	05:31	36m	06:08	35m	06:43	33m	07:16	11h 01m	18:18	33m	18:51	35m	19:26	36m	20:02	13h 00m	9h 30m				Sa, 12. Okt
So, 13. Okt	MESZ	02:51* – 05:34*	2h 42m	M <sub>\</sub> bis AN <sub>-</sub>		16:46	01:26	05:33	36m	06:09	35m	06:44	33m	07:18	10h 57m	18:16	33m	18:49	35m	19:24	36m	20:00	13h 03m	9h 33m				So, 13. Okt
Mo, 14. Okt	MESZ	04:17* – 05:36*	1h 18m	M <sub>\</sub> bis AN <sub>-</sub>		17:05	02:51	05:34	36m	06:10	35m	06:46	33m	07:19	10h 54m	18:14	33m	18:47	35m	19:22	36m	19:59	13h 07m	9h 37m				Mo, 14. Okt
Di, 15. Okt	MESZ	—:~:~:~:~	–	Mond stört		17:22	04:17	05:36	36m	06:12	35m	06:47	33m	07:21	10h 51m	18:12	33m	18:45	35m	19:21	36m	19:57	13h 10m	9h 40m				Di, 15. Okt
Mi, 16. Okt	MESZ	—:~:~:~:~	–	Mond stört		17:39	05:44	05:37	36m	06:13	35m	06:49	33m	07:22	10h 47m	18:10	33m	18:43	35m	19:19	36m	19:55	13h 13m	9h 43m				Mi, 16. Okt
Do, 17. Okt	MESZ	—:~:~:~:~	–	Mond stört	☉	17:58	07:12	05:38	36m	06:15	35m	06:50	33m	07:24	10h 44m	18:08	33m	18:41	35m	19:17	36m	19:53	13h 17m	9h 46m				Do, 17. Okt
Fr, 18. Okt	MESZ	—:~:~:~:~	–	Mond stört		18:20	08:42	05:40	36m	06:16	35m	06:52	33m	07:25	10h 40m	18:06	33m	18:40	35m	19:15	36m	19:51	13h 20m	9h 50m			</	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
2024	Zeit- zone	Astr. dunkel und kein Mond			Mond		Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2024			
		$\Delta t$			Ph.	$\nearrow$	$\searrow$	Astr.	$\Delta t$	Naut.	$\Delta t$	Bürg.	$\Delta t$	$\nearrow$	$\Delta t$	$\searrow$	$\Delta t$	Bürg.	$\Delta t$	Naut.	$\Delta t$	Astr.	$\Delta t$	$\Delta t$		$\Delta t$		
So, 27. Okt		18:36–02:16*	7h 39m	AN <sub>+</sub> bis M <sub>J</sub>		01:08	15:12	04:53	36m	05:29	35m	06:05	34m	06:39	10h 11m	16:50	34m	17:24	35m	18:00	36m	18:36	13h 50m	10h 17m				So, 27. Okt
Mo, 28. Okt		18:35–03:22*	8h 47m	AN <sub>+</sub> bis M <sub>J</sub>		02:16	15:25	04:54	36m	05:30	35m	06:06	34m	06:40	10h 07m	16:48	34m	17:23	35m	17:58	36m	18:35	13h 53m	10h 20m				Mo, 28. Okt
Di, 29. Okt		18:33–04:28*	9h 54m	AN <sub>+</sub> bis M <sub>J</sub>		03:22	15:37	04:55	36m	05:32	35m	06:08	34m	06:42	10h 04m	16:47	34m	17:21	35m	17:57	36m	18:33	13h 56m	10h 23m				Di, 29. Okt
Mi, 30. Okt		18:32–04:58*	10h 26m	AN <sub>+</sub> bis AN <sub>-</sub>		04:28	15:50	04:57	36m	05:33	36m	06:09	34m	06:44	10h 01m	16:45	34m	17:20	35m	17:55	36m	18:32	14h 00m	10h 26m				Mi, 30. Okt
Do, 31. Okt		18:30–05:00*	10h 29m	AN <sub>+</sub> bis AN <sub>-</sub>		05:35	16:04	04:58	36m	05:34	36m	06:10	34m	06:45	9h 58m	16:43	34m	17:18	36m	17:54	36m	18:30	14h 03m	10h 29m				Do, 31. Okt
Fr, 1. Nov		18:29–05:01*	10h 32m	AN <sub>+</sub> bis AN <sub>-</sub>	●	06:44	16:20	05:00	36m	05:36	36m	06:12	34m	06:47	9h 55m	16:42	34m	17:16	36m	17:53	36m	18:29	14h 06m	10h 32m				Fr, 1. Nov
Sa, 2. Nov		18:27–05:02*	10h 34m	AN <sub>+</sub> bis AN <sub>-</sub>		07:54	16:41	05:01	36m	05:37	36m	06:13	34m	06:48	9h 52m	16:40	34m	17:15	36m	17:51	36m	18:27	14h 09m	10h 34m				Sa, 2. Nov
So, 3. Nov		18:26–05:04*	10h 37m	AN <sub>+</sub> bis AN <sub>-</sub>		09:06	17:08	05:02	36m	05:39	36m	06:15	34m	06:50	9h 48m	16:39	34m	17:14	36m	17:50	36m	18:26	14h 12m	10h 37m				So, 3. Nov
Mo, 4. Nov		18:25–05:05*	10h 40m	AN <sub>+</sub> bis AN <sub>-</sub>		10:16	17:45	05:04	36m	05:40	36m	06:16	35m	06:51	9h 45m	16:37	35m	17:12	36m	17:48	36m	18:25	14h 15m	10h 40m				Mo, 4. Nov
Di, 5. Nov		18:34–05:06*	10h 32m	M <sub>\</sub> bis AN <sub>-</sub>		11:19	18:34	05:05	36m	05:41	36m	06:18	35m	06:53	9h 42m	16:36	35m	17:11	36m	17:47	36m	18:23	14h 18m	10h 42m				Di, 5. Nov
Mi, 6. Nov		19:36–05:08*	9h 31m	M <sub>\</sub> bis AN <sub>-</sub>		12:12	19:36	05:06	36m	05:43	36m	06:19	35m	06:54	9h 39m	16:34	35m	17:09	36m	17:46	36m	18:22	14h 21m	10h 45m				Mi, 6. Nov
Do, 7. Nov		20:49–05:09*	8h 20m	M <sub>\</sub> bis AN <sub>-</sub>		12:53	20:49	05:08	36m	05:44	36m	06:21	35m	06:56	9h 36m	16:33	35m	17:08	36m	17:45	36m	18:21	14h 24m	10h 47m				Do, 7. Nov
Fr, 8. Nov		22:08–05:10*	7h 02m	M <sub>\</sub> bis AN <sub>-</sub>		13:25	22:08	05:09	36m	05:45	36m	06:22	35m	06:57	9h 33m	16:31	35m	17:07	36m	17:43	36m	18:20	14h 27m	10h 50m				Fr, 8. Nov
Sa, 9. Nov		23:30–05:12*	5h 41m	M <sub>\</sub> bis AN <sub>-</sub>	◐	13:49	23:30	05:10	36m	05:47	36m	06:23	35m	06:59	9h 30m	16:30	35m	17:06	36m	17:42	36m	18:19	14h 30m	10h 52m				Sa, 9. Nov
So, 10. Nov		00:52*–05:13*	4h 21m	M <sub>\</sub> bis AN <sub>-</sub>		14:08	—:—	05:12	36m	05:48	36m	06:25	35m	07:01	9h 28m	16:29	35m	17:04	36m	17:41	36m	18:18	14h 33m	10h 55m				So, 10. Nov
Mo, 11. Nov		02:14*–05:14*	2h 59m	M <sub>\</sub> bis AN <sub>-</sub>		14:26	00:52	05:13	36m	05:50	36m	06:26	35m	07:02	9h 25m	16:27	35m	17:03	36m	17:40	36m	18:16	14h 36m	10h 57m				Mo, 11. Nov
Di, 12. Nov		03:39*–05:16*	1h 36m	M <sub>\</sub> bis AN <sub>-</sub>		14:42	02:14	05:14	36m	05:51	36m	06:28	35m	07:04	9h 22m	16:26	35m	17:02	36m	17:39	36m	18:15	14h 39m	11h 00m				Di, 12. Nov
Mi, 13. Nov		05:05*–05:17*	11m	M <sub>\</sub> bis AN <sub>-</sub>		14:59	03:39	05:16	36m	05:52	36m	06:29	36m	07:05	9h 19m	16:25	35m	17:01	36m	17:38	36m	18:14	14h 41m	11h 02m				Mi, 13. Nov
Do, 14. Nov		—:—:—:—	–	Mond stört		15:19	05:05	05:17	36m	05:54	37m	06:31	36m	07:07	9h 16m	16:24	36m	17:00	37m	17:37	36m	18:13	14h 44m	11h 04m				Do, 14. Nov
Fr, 15. Nov		—:—:—:—	–	Mond stört	◑	15:44	06:35	05:18	36m	05:55	37m	06:32	36m	07:08	9h 14m	16:22	36m	16:59	37m	17:36	36m	18:13	14h 47m	11h 06m				Fr, 15. Nov
Sa, 16. Nov		—:—:—:—	–	Mond stört		16:17	08:05	05:19	36m	05:56	37m	06:33	36m	07:10	9h 11m	16:21	36m	16:58	37m	17:35	36m	18:12	14h 49m	11h 08m				Sa, 16. Nov
So, 17. Nov		—:~:~:~:~	–	Mond stört		17:02	09:29	05:21	36m	05:57	37m	06:35	36m	07:11	9h 09m	16:20	36m	16:57	37m	17:34	36m	18:11	14h 52m	11h 11m				So, 17. Nov
Mo, 18. Nov		—:~:~:~:~	–	Mond stört		18:01	10:41	05:22	36m	05:59	37m	06:36	36m	07:13	9h 06m	16:19	36m	16:56	37m	17:33	36m	18:10	14h 54m	11h 13m				Mo, 18. Nov
Di, 19. Nov		18:09–19:11	1h 02m	AN <sub>+</sub> bis M <sub>J</sub>		19:11	11:35	05:23	36m	06:00	37m	06:38	36m	07:14	9h 04m	16:18	36m	16:55	37m	17:32	36m	18:09	14h 57m	11h 15m				Di, 19. Nov
Mi, 20. Nov		18:09–20:27	2h 18m	AN <sub>+</sub> bis M <sub>J</sub>		20:27	12:14	05:24	37m	06:01	37m	06:39	36m	07:16	9h 01m	16:17	36m	16:54	37m	17:32	36m	18:09	14h 59m	11h 16m				Mi, 20. Nov
Do, 21. Nov		18:08–21:43	3h 34m	AN <sub>+</sub> bis M <sub>J</sub>		21:43	12:41	05:26	37m	06:03	37m	06:40	36m	07:17	8h 59m	16:16	36m	16:53	37m	17:31	37m	18:08	15h 02m	11h 18m				Do, 21. Nov
Fr, 22. Nov		18:07–22:55	4h 48m	AN <sub>+</sub> bis M <sub>J</sub>		22:55	13:02	05:27	37m	06:04	37m	06:42	37m	07:19	8h 56m	16:15	36m	16:52	37m	17:30	37m	18:07	15h 04m	11h 20m				Fr, 22. Nov
Sa, 23. Nov		18:07–00:04*	5h 57m	AN <sub>+</sub> bis M <sub>J</sub>	◒	—:—	13:18	05:28	37m	06:05	37m	06:43	37m	07:20	8h 54m	16:15	37m	16:52	37m	17:29	37m	18:07	15h 06m	11h 22m				Sa, 23. Nov
So, 24. Nov		18:06–01:11*	7h 05m	AN <sub>+</sub> bis M <sub>J</sub>		00:04	13:32	05:29	37m	06:06	37m	06:44	37m	07:21	8h 52m	16:14	37m	16:51	37m	17:29	37m	18:06	15h 09m	11h 24m				So, 24. Nov
Mo, 25. Nov		18:05–02:17*	8h 11m	AN <sub>+</sub> bis M <sub>J</sub>		01:11	13:44	05:30	37m	06:07	37m	06:45	37m	07:23	8h 50m	16:13	37m	16:50	37m	17:28	37m	18:05	15h 11m	11h 25m				Mo, 25. Nov
Di, 26. Nov		18:05–03:23*	9h 18m	AN <sub>+</sub> bis M <sub>J</sub>		02:17	13:57	05:31	37m	06:09	38m	06:47	37m	07:24	8h 48m	16:12	37m	16:50	37m	17:28	37m	18:05	15h 13m	11h 27m				Di, 26. Nov
Mi, 27. Nov		18:04–04:31*	10h 26m	AN <sub>+</sub> bis M <sub>J</sub>		03:23	14:10	05:33	37m	06:10	38m	06:48	37m	07:25	8h 46m	16:12	37m	16:49	38m	17:27	37m	18:04	15h 15m	11h 29m				Mi, 27. Nov
Do, 28. Nov		18:04–05:35*	11h 30m	AN <sub>+</sub> bis AN <sub>-</sub>		04:31	14:26	05:34	37m	06:11	38m	06:49	37m	07:27	8h 44m	16:11	37m	16:49	38m	17:27	37m	18:04	15h 17m	11h 30m				Do, 28. Nov
Fr, 29. Nov		18:04–05:36*	11h 32m	AN <sub>+</sub> bis AN <sub>-</sub>		05:41	14:45	05:35	37m	06:12	38m	06:50	37m	07:28	8h 42m	16:10	37m	16:48	38m	17:26	37m	18:04	15h 19m	11h 32m				Fr, 29. Nov
Sa, 30. Nov		18:03–05:37*	11h 33m	AN <sub>+</sub> bis AN <sub>-</sub>		06:53	15:10	05:36	37m	06:13	38m	06:52	37m	07:29	8h 40m	16:10	37m	16:48	38m	17:26	37m	18:03	15h 20m	11h 33m				Sa, 30. Nov
So, 1. Dez		18:03–05:38*	11h 34m	AN <sub>+</sub> bis AN <sub>-</sub>	●	08:05	15:44	05:37	37m	06:14	38m	06:53	37m	07:31	8h 38m	16:09	37m	16:47	38m	17:26	37m	18:03	15h 22m	11h 34m				So, 1. Dez
Mo, 2. Dez		18:03–05:39*	11h 36m	AN <sub>+</sub> bis AN <sub>-</sub>		09:11	16:30	05:38	37m	06:15	38m	06:54	38m	07:32	8h 36m	16:09	37m	16:47	38m	17:25	37m	18:03	15h 24m	11h 36m				Mo, 2. Dez
Di, 3. Dez		18:03–05:40*	11h 37m	AN <sub>+</sub> bis AN <sub>-</sub>		10:08	17:29	05:39	37m	06:17	38m	06:55	38m	07:33	8h 35m	16:08	38m	16:47	38m	17:25	37m	18:03	15h 25m	11h 37m				Di, 3. Dez
Mi, 4. Dez		18:40–05:41*	11h 00m	M <sub>\</sub> bis AN <sub>-</sub>		10:53	18:40	05:40	37m	06:18	38m	06:56	38m	07:34	8h 33m	16:08	38m	16:46	38m	17:25	37m	18:02	15h 27m	11h 38m				Mi, 4. Dez
Do, 5. Dez		19:58–05:42*	9h 44m	M <sub>\</sub> bis AN <sub>-</sub>		11:27	19:58	05:41	37m	06:19	38m	06:57	38m	07:35	8h 32m	16:08	38m	16:46	38m	17:25	37m	18:02	15h 28m	11h 39m				Do, 5. Dez
Fr, 6. Dez		21:18–05:43*	8h 24m	M <sub>\</sub> bis AN <sub>-</sub>		11:53	21:18	05:42	37m	06:20	38m	06:58	38m	07:37	8h 31m	16:08	38m	16:46	38m	17:25	37m	18:02	15h 30m	11h 40m				Fr, 6. Dez
Sa, 7. Dez		22:38–05:44*	7h 05m	M <sub>\</sub> bis AN <sub>-</sub>		12:14	22:38	05:43	37m	06:21	38m	06:59	38m	07:38	8h 29m	16:07	38m	16:46	38m	17:24	37m	18:02	15h 31m	11h 41m				Sa, 7. Dez
So, 8. Dez		23:58–05:45*	5h 46m	M <sub>\</sub> bis AN <sub>-</sub>																								

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
2024/25	Zeitzone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2024/25		
		$\Delta t$			Ph.	$\nearrow$	$\searrow$	Astr.	$\Delta t$	Naut.	$\Delta t$	Bürg.	$\Delta t$	$\nearrow$	$\Delta t$	$\searrow$	$\Delta t$	Bürg.	$\Delta t$	Naut.	$\Delta t$	Astr.	$\Delta t$	$\Delta t$		$\Delta t$		
Mo, 16. Dez		—:—:—:—	—	Mond stört		16:47	09:21	05:50	37m	06:28	39m	07:07	38m	07:46	8h 22m	16:08	38m	16:47	39m	17:26	37m	18:04	15h 38m	11h 47m				Mo, 16. Dez
Di, 17. Dez		—:—:—:—	—	Mond stört		18:03	10:07	05:51	37m	06:29	39m	07:08	38m	07:46	8h 21m	16:08	38m	16:47	39m	17:26	37m	18:04	15h 39m	11h 47m				Di, 17. Dez
Mi, 18. Dez		18:04–19:21	1h 16m	AN <sub>+</sub> bis M <sub>7</sub>		19:21	10:40	05:51	37m	06:29	39m	07:08	38m	07:47	8h 21m	16:08	38m	16:47	39m	17:26	37m	18:04	15h 39m	11h 47m				Mi, 18. Dez
Do, 19. Dez		18:05–20:37	2h 31m	AN <sub>+</sub> bis M <sub>7</sub>		20:37	11:04	05:52	37m	06:30	39m	07:09	38m	07:48	8h 21m	16:09	38m	16:48	39m	17:27	37m	18:05	15h 39m	11h 47m				Do, 19. Dez
Fr, 20. Dez		18:05–21:48	3h 43m	AN <sub>+</sub> bis M <sub>7</sub>		21:48	11:22	05:52	37m	06:30	39m	07:09	38m	07:48	8h 20m	16:09	38m	16:48	39m	17:27	37m	18:05	15h 39m	11h 47m				Fr, 20. Dez
Sa, 21. Dez		18:06–22:57	4h 51m	AN <sub>+</sub> bis M <sub>7</sub>		22:57	11:37	05:53	37m	06:31	39m	07:10	38m	07:49	8h 20m	16:10	38m	16:49	39m	17:28	37m	18:06	15h 39m	11h 47m				Sa, 21. Dez
So, 22. Dez		18:06–00:04*	5h 57m	AN <sub>+</sub> bis M <sub>7</sub>	☉	—:—	11:50	05:53	37m	06:31	39m	07:10	38m	07:49	8h 20m	16:10	38m	16:49	39m	17:28	37m	18:06	15h 39m	11h 47m				So, 22. Dez
Mo, 23. Dez		18:07–01:10*	7h 03m	AN <sub>+</sub> bis M <sub>7</sub>		00:04	12:03	05:54	37m	06:32	39m	07:11	38m	07:50	8h 21m	16:11	38m	16:50	39m	17:29	37m	18:07	15h 39m	11h 47m				Mo, 23. Dez
Di, 24. Dez		18:07–02:17*	8h 09m	AN <sub>+</sub> bis M <sub>7</sub>		01:10	12:16	05:54	37m	06:32	39m	07:11	38m	07:50	8h 21m	16:11	38m	16:50	39m	17:29	37m	18:07	15h 38m	11h 47m				Di, 24. Dez
Mi, 25. Dez		18:08–03:26*	9h 17m	AN <sub>+</sub> bis M <sub>7</sub>		02:17	12:30	05:55	37m	06:33	39m	07:12	38m	07:50	8h 21m	16:12	38m	16:51	39m	17:30	37m	18:08	15h 38m	11h 46m				Mi, 25. Dez
Do, 26. Dez		18:09–04:37*	10h 28m	AN <sub>+</sub> bis M <sub>7</sub>		03:26	12:48	05:55	37m	06:33	38m	07:12	38m	07:51	8h 22m	16:13	38m	16:52	39m	17:31	37m	18:09	15h 38m	11h 46m				Do, 26. Dez
Fr, 27. Dez		18:09–05:49*	11h 39m	AN <sub>+</sub> bis M <sub>7</sub>		04:37	13:11	05:55	37m	06:33	38m	07:12	38m	07:51	8h 22m	16:14	38m	16:52	38m	17:31	37m	18:09	15h 37m	11h 46m				Fr, 27. Dez
Sa, 28. Dez		18:10–05:56*	11h 45m	AN <sub>+</sub> bis AN <sub>-</sub>		05:49	13:41	05:55	37m	06:33	38m	07:12	38m	07:51	8h 23m	16:14	38m	16:53	38m	17:32	37m	18:10	15h 36m	11h 45m				Sa, 28. Dez
So, 29. Dez		18:11–05:56*	11h 45m	AN <sub>+</sub> bis AN <sub>-</sub>		06:58	14:22	05:56	37m	06:34	38m	07:13	38m	07:51	8h 23m	16:15	38m	16:54	38m	17:33	37m	18:11	15h 36m	11h 45m				So, 29. Dez
Mo, 30. Dez		18:12–05:56*	11h 44m	AN <sub>+</sub> bis AN <sub>-</sub>	●	08:00	15:18	05:56	37m	06:34	38m	07:13	38m	07:51	8h 24m	16:16	38m	16:55	38m	17:34	37m	18:12	15h 35m	11h 44m				Mo, 30. Dez
Di, 31. Dez		18:12–05:56*	11h 43m	AN <sub>+</sub> bis AN <sub>-</sub>		08:50	16:26	05:56	37m	06:34	38m	07:13	38m	07:51	8h 25m	16:17	38m	16:56	38m	17:35	37m	18:12	15h 34m	11h 43m				Di, 31. Dez
Mi, 1. Jan		18:13–05:56*	11h 43m	AN <sub>+</sub> bis AN <sub>-</sub>		09:28	17:44	05:56	37m	06:34	38m	07:13	38m	07:51	8h 26m	16:18	38m	16:57	38m	17:35	37m	18:13	15h 33m	11h 43m				Mi, 1. Jan
Do, 2. Jan		19:06–05:56*	10h 50m	M <sub>\</sub> bis AN <sub>-</sub>		09:57	19:06	05:56	37m	06:34	38m	07:13	38m	07:51	8h 27m	16:19	38m	16:58	38m	17:36	37m	18:14	15h 32m	11h 42m				Do, 2. Jan
Fr, 3. Jan		20:27–05:56*	9h 28m	M <sub>\</sub> bis AN <sub>-</sub>		10:19	20:27	05:56	37m	06:34	38m	07:13	38m	07:51	8h 28m	16:20	38m	16:58	38m	17:37	37m	18:15	15h 31m	11h 41m				Fr, 3. Jan
Sa, 4. Jan		21:48–05:56*	8h 08m	M <sub>\</sub> bis AN <sub>-</sub>		10:37	21:48	05:56	37m	06:34	38m	07:13	38m	07:51	8h 29m	16:21	38m	17:00	38m	17:38	37m	18:16	15h 29m	11h 40m				Sa, 4. Jan
So, 5. Jan		23:08–05:56*	6h 48m	M <sub>\</sub> bis AN <sub>-</sub>		10:53	23:08	05:56	37m	06:34	38m	07:13	38m	07:51	8h 31m	16:22	38m	17:01	38m	17:39	37m	18:17	15h 28m	11h 39m				So, 5. Jan
Mo, 6. Jan		00:28*–05:56*	5h 28m	M <sub>\</sub> bis AN <sub>-</sub>		11:09	—:—	05:56	37m	06:34	38m	07:12	38m	07:51	8h 32m	16:23	38m	17:02	38m	17:40	37m	18:18	15h 27m	11h 38m				Mo, 6. Jan
Di, 7. Jan		01:50*–05:56*	4h 05m	M <sub>\</sub> bis AN <sub>-</sub>	☾	11:26	00:28	05:56	37m	06:34	38m	07:12	38m	07:50	8h 34m	16:25	38m	17:03	38m	17:41	37m	18:19	15h 25m	11h 37m				Di, 7. Jan
Mi, 8. Jan		03:14*–05:56*	2h 41m	M <sub>\</sub> bis AN <sub>-</sub>		11:45	01:50	05:56	37m	06:34	38m	07:12	38m	07:50	8h 35m	16:26	38m	17:04	38m	17:42	37m	18:20	15h 23m	11h 35m				Mi, 8. Jan
Do, 9. Jan		04:39*–05:55*	1h 16m	M <sub>\</sub> bis AN <sub>-</sub>		12:10	03:14	05:56	37m	06:33	38m	07:12	37m	07:50	8h 37m	16:27	37m	17:05	38m	17:43	37m	18:21	15h 22m	11h 34m				Do, 9. Jan
Fr, 10. Jan		—:—:—:—	—	Mond stört		12:43	04:39	05:55	37m	06:33	38m	07:11	37m	07:49	8h 39m	16:28	37m	17:06	38m	17:44	37m	18:22	15h 20m	11h 33m				Fr, 10. Jan
Sa, 11. Jan		—:—:—:—	—	Mond stört		13:28	05:58	05:55	37m	06:33	38m	07:11	37m	07:49	8h 40m	16:30	37m	17:07	38m	17:46	37m	18:23	15h 18m	11h 31m				Sa, 11. Jan
So, 12. Jan		—:~:~:~:~	—	Mond stört		14:27	07:06	05:55	37m	06:32	38m	07:10	37m	07:48	8h 42m	16:31	37m	17:09	38m	17:47	37m	18:24	15h 16m	11h 30m				So, 12. Jan
Mo, 13. Jan		—:~:~:~:~	—	Mond stört	○	15:39	07:59	05:55	37m	06:32	38m	07:10	37m	07:48	8h 44m	16:32	37m	17:10	38m	17:48	37m	18:25	15h 14m	11h 28m				Mo, 13. Jan
Di, 14. Jan		—:~:~:~:~	—	Mond stört		16:57	08:37	05:54	37m	06:31	38m	07:09	37m	07:47	8h 46m	16:34	37m	17:11	38m	17:49	37m	18:26	15h 12m	11h 27m				Di, 14. Jan
Mi, 15. Jan		—:~:~:~:~	—	Mond stört		18:14	09:04	05:54	37m	06:31	37m	07:09	37m	07:46	8h 48m	16:35	37m	17:12	37m	17:50	37m	18:28	15h 10m	11h 25m				Mi, 15. Jan
Do, 16. Jan		18:29–19:29	1h 00m	AN <sub>+</sub> bis M <sub>7</sub>		19:29	09:25	05:53	37m	06:30	37m	07:08	37m	07:46	8h 50m	16:36	37m	17:14	37m	17:52	37m	18:29	15h 08m	11h 23m				Do, 16. Jan
Fr, 17. Jan		18:30–20:40	2h 09m	AN <sub>+</sub> bis M <sub>7</sub>		20:40	09:41	05:53	37m	06:30	37m	07:08	37m	07:45	8h 52m	16:38	37m	17:15	37m	17:53	37m	18:30	15h 06m	11h 22m				Fr, 17. Jan
Sa, 18. Jan		18:31–21:48	3h 17m	AN <sub>+</sub> bis M <sub>7</sub>		21:48	09:55	05:52	37m	06:29	37m	07:07	37m	07:44	8h 55m	16:39	37m	17:16	37m	17:54	37m	18:31	15h 03m	11h 20m				Sa, 18. Jan
So, 19. Jan		18:32–22:55	4h 22m	AN <sub>+</sub> bis M <sub>7</sub>		22:55	10:08	05:52	37m	06:29	37m	07:06	36m	07:43	8h 57m	16:41	36m	17:18	37m	17:55	37m	18:32	15h 01m	11h 18m				So, 19. Jan
Mo, 20. Jan		18:34–00:02*	5h 28m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	10:21	05:51	37m	06:28	37m	07:05	36m	07:42	8h 59m	16:42	36m	17:19	37m	17:57	37m	18:34	14h 59m	11h 16m				Mo, 20. Jan
Di, 21. Jan		18:35–01:10*	6h 34m	AN <sub>+</sub> bis M <sub>7</sub>	☾	00:02	10:35	05:50	36m	06:27	37m	07:05	36m	07:41	9h 02m	16:44	36m	17:20	37m	17:58	37m	18:35	14h 56m	11h 14m				Di, 21. Jan
Mi, 22. Jan		18:36–02:20*	7h 43m	AN <sub>+</sub> bis M <sub>7</sub>		01:10	10:51	05:49	36m	06:26	37m	07:04	36m	07:40	9h 04m	16:45	36m	17:22	37m	17:59	36m	18:36	14h 54m	11h 12m				Mi, 22. Jan
Do, 23. Jan		18:38–03:31*	8h 53m	AN <sub>+</sub> bis M <sub>7</sub>		02:20	11:11	05:49	36m	06:26	37m	07:03	36m	07:39	9h 07m	16:47	36m	17:23	37m	18:01	36m	18:38	14h 51m	11h 10m				Do, 23. Jan
Fr, 24. Jan		18:39–04:41*	10h 02m	AN <sub>+</sub> bis M <sub>7</sub>		03:31	11:37	05:48	36m	06:25	37m	07:02	36m	07:38	9h 09m	16:48	36m	17:25	37m	18:02	36m	18:39	14h 49m	11h 08m				Fr, 24. Jan
Sa, 25. Jan		18:40–05:46*	11h 06m	AN <sub>+</sub> bis AN <sub>-</sub>		04:41	12:13	05:47	36m	06:24	37m	07:01	36m	07:37	9h 12m	16:50	36m	17:26	37m	18:03	36m	18:40	14h 46m	11h 06m				Sa, 25. Jan
So, 26. Jan		18:41–05:45*	11h 03m	AN <sub>+</sub> bis AN <sub>-</sub>		05:46	13:02	05:46	36m	06:23	37m	07:00	36m	07:36	9h 15m	16:51	36m	17:28	37m	18:05	36m	18:41	14h 43m	11h 03m				So, 26. Jan
Mo, 27. Jan		18:43–05:44*	11h 01m	AN <sub>+</sub> bis AN <sub>-</sub>		06:42	14:05																					