

# Mond- und Dämmerungstabelle 2023

## für die visuelle Deep-Sky-Beobachtung

Mistelbach (Niederösterreich) 48.5667° N 16.5667° 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 angegebenen 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>l</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>l</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
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
			$\Delta t$		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, 1. Jan		03:31*–05:49*	2h 18m	M <sub>\</sub> bis AN <sub>\</sub>		12:31	02:18	05:49	38m	06:27	39m	07:06	38m	07:45	8h 23m	16:08	38m	16:47	39m	17:26	38m	18:05	15h 36m	11h 44m				So, 1. Jan
Mo, 2. Jan		04:43*–05:49*	1h 06m	M <sub>\</sub> bis AN <sub>\</sub>		12:52	03:31	05:49	38m	06:27	39m	07:06	38m	07:45	8h 24m	16:09	38m	16:48	39m	17:27	38m	18:05	15h 35m	11h 43m				Mo, 2. Jan
Di, 3. Jan		—:—:—:—	–	Mond stört		13:17	04:43	05:49	38m	06:27	39m	07:06	38m	07:45	8h 25m	16:10	38m	16:49	39m	17:28	38m	18:06	15h 34m	11h 42m				Di, 3. Jan
Mi, 4. Jan		—:—:—:—	–	Mond stört		13:49	05:52	05:49	38m	06:27	38m	07:06	38m	07:45	8h 26m	16:12	38m	16:50	38m	17:29	38m	18:07	15h 33m	11h 41m				Mi, 4. Jan
Do, 5. Jan		—:—:—:—	–	Mond stört		14:30	06:56	05:49	37m	06:27	38m	07:06	38m	07:45	8h 28m	16:13	38m	16:51	38m	17:30	37m	18:08	15h 31m	11h 40m				Do, 5. Jan
Fr, 6. Jan		—:~:~:~:~	–	Mond stört		15:21	07:52	05:49	37m	06:27	38m	07:06	38m	07:44	8h 29m	16:14	38m	16:52	38m	17:31	37m	18:09	15h 30m	11h 39m				Fr, 6. Jan
Sa, 7. Jan		—:~:~:~:~	–	Mond stört	○	16:21	08:36	05:49	37m	06:27	38m	07:06	38m	07:44	8h 30m	16:15	38m	16:53	38m	17:32	37m	18:10	15h 28m	11h 38m				Sa, 7. Jan
So, 8. Jan		—:~:~:~:~	–	Mond stört		17:26	09:11	05:49	37m	06:27	38m	07:05	38m	07:44	8h 32m	16:16	38m	16:55	38m	17:33	37m	18:11	15h 27m	11h 37m				So, 8. Jan
Mo, 9. Jan		18:12–18:35	22m	AN <sub>+</sub> bis M <sub>7</sub>		18:35	09:38	05:49	37m	06:26	38m	07:05	38m	07:43	8h 33m	16:17	38m	16:56	38m	17:34	37m	18:12	15h 25m	11h 36m				Mo, 9. Jan
Di, 10. Jan		18:13–19:43	1h 30m	AN <sub>+</sub> bis M <sub>7</sub>		19:43	09:59	05:48	37m	06:26	38m	07:05	38m	07:43	8h 35m	16:19	38m	16:57	38m	17:35	37m	18:13	15h 23m	11h 34m				Di, 10. Jan
Mi, 11. Jan		18:14–20:52	2h 37m	AN <sub>+</sub> bis M <sub>7</sub>		20:52	10:17	05:48	37m	06:26	38m	07:04	38m	07:42	8h 37m	16:20	38m	16:58	38m	17:37	37m	18:14	15h 22m	11h 33m				Mi, 11. Jan
Do, 12. Jan		18:15–22:00	3h 44m	AN <sub>+</sub> bis M <sub>7</sub>		22:00	10:32	05:48	37m	06:25	38m	07:04	38m	07:42	8h 39m	16:21	38m	16:59	38m	17:38	37m	18:15	15h 20m	11h 31m				Do, 12. Jan
Fr, 13. Jan		18:17–23:09	4h 51m	AN <sub>+</sub> bis M <sub>7</sub>		23:09	10:46	05:47	37m	06:25	38m	07:03	37m	07:41	8h 41m	16:23	37m	17:00	38m	17:39	37m	18:17	15h 18m	11h 30m				Fr, 13. Jan
Sa, 14. Jan		18:18–00:20*	6h 01m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	11:01	05:47	37m	06:25	38m	07:03	37m	07:41	8h 43m	16:24	37m	17:02	38m	17:40	37m	18:18	15h 16m	11h 28m				Sa, 14. Jan
So, 15. Jan		18:19–01:34*	7h 15m	AN <sub>+</sub> bis M <sub>7</sub>	●	00:20	11:16	05:47	37m	06:24	38m	07:02	37m	07:40	8h 45m	16:25	37m	17:03	38m	17:41	37m	18:19	15h 14m	11h 27m				So, 15. Jan
Mo, 16. Jan		18:20–02:53*	8h 33m	AN <sub>+</sub> bis M <sub>7</sub>		01:34	11:35	05:46	37m	06:24	38m	07:02	37m	07:39	8h 47m	16:27	37m	17:04	38m	17:43	37m	18:20	15h 11m	11h 25m				Mo, 16. Jan
Di, 17. Jan		18:21–04:16*	9h 54m	AN <sub>+</sub> bis M <sub>7</sub>		02:53	11:59	05:46	37m	06:23	38m	07:01	37m	07:39	8h 49m	16:28	37m	17:06	38m	17:44	37m	18:21	15h 09m	11h 23m				Di, 17. Jan
Mi, 18. Jan		18:22–05:38*	11h 15m	AN <sub>+</sub> bis M <sub>7</sub>		04:16	12:32	05:45	37m	06:22	38m	07:00	37m	07:38	8h 51m	16:30	37m	17:07	38m	17:45	37m	18:22	15h 07m	11h 21m				Mi, 18. Jan
Do, 19. Jan		18:24–05:44*	11h 20m	AN <sub>+</sub> bis AN <sub>\</sub>		05:38	13:18	05:44	37m	06:22	37m	07:00	37m	07:37	8h 54m	16:31	37m	17:08	37m	17:46	37m	18:24	15h 05m	11h 20m				Do, 19. Jan
Fr, 20. Jan		18:25–05:43*	11h 18m	AN <sub>+</sub> bis AN <sub>\</sub>		06:51	14:22	05:44	37m	06:21	37m	06:59	37m	07:36	8h 56m	16:33	37m	17:10	37m	17:48	37m	18:25	15h 02m	11h 18m				Fr, 20. Jan
Sa, 21. Jan		18:26–05:42*	11h 16m	AN <sub>+</sub> bis AN <sub>\</sub>	●	07:50	15:42	05:43	37m	06:20	37m	06:58	37m	07:35	8h 58m	16:34	37m	17:11	37m	17:49	37m	18:26	15h 00m	11h 16m				Sa, 21. Jan
So, 22. Jan		18:28–05:42*	11h 14m	AN <sub>+</sub> bis AN <sub>\</sub>		08:32	17:11	05:42	37m	06:20	37m	06:57	36m	07:34	9h 01m	16:36	36m	17:13	37m	17:50	37m	18:28	14h 57m	11h 14m				So, 22. Jan
Mo, 23. Jan		18:42–05:41*	10h 59m	M <sub>\</sub> bis AN <sub>\</sub>		09:03	18:42	05:42	37m	06:19	37m	06:56	36m	07:33	9h 03m	16:37	36m	17:14	37m	17:52	37m	18:29	14h 55m	11h 12m				Mo, 23. Jan
Di, 24. Jan		20:09–05:40*	9h 31m	M <sub>\</sub> bis AN <sub>\</sub>		09:27	20:09	05:41	37m	06:18	37m	06:56	36m	07:32	9h 06m	16:39	36m	17:15	37m	17:53	37m	18:30	14h 52m	11h 09m				Di, 24. Jan
Mi, 25. Jan		21:31–05:39*	8h 08m	M <sub>\</sub> bis AN <sub>\</sub>		09:46	21:31	05:40	37m	06:17	37m	06:55	36m	07:31	9h 09m	16:40	36m	17:17	37m	17:54	37m	18:31	14h 49m	11h 07m				Mi, 25. Jan
Do, 26. Jan		22:49–05:38*	6h 49m	M <sub>\</sub> bis AN <sub>\</sub>		10:02	22:49	05:39	36m	06:16	37m	06:54	36m	07:30	9h 11m	16:42	36m	17:18	37m	17:56	37m	18:33	14h 47m	11h 05m				Do, 26. Jan
Fr, 27. Jan		00:05*–05:37*	5h 31m	M <sub>\</sub> bis AN <sub>\</sub>		10:19	—:—	05:38	36m	06:15	37m	06:53	36m	07:29	9h 14m	16:43	36m	17:20	37m	17:57	36m	18:34	14h 44m	11h 03m				Fr, 27. Jan
Sa, 28. Jan		01:20*–05:36*	4h 16m	M <sub>\</sub> bis AN <sub>\</sub>	●	10:36	00:05	05:37	36m	06:14	37m	06:51	36m	07:28	9h 17m	16:45	36m	17:21	37m	17:59	36m	18:35	14h 41m	11h 00m				Sa, 28. Jan
So, 29. Jan		02:34*–05:35*	3h 01m	M <sub>\</sub> bis AN <sub>\</sub>		10:56	01:20	05:36	36m	06:13	37m	06:50	36m	07:27	9h 20m	16:47	36m	17:23	37m	18:00	36m	18:37	14h 38m	10h 58m				So, 29. Jan
Mo, 30. Jan		03:45*–05:34*	1h 49m	M <sub>\</sub> bis AN <sub>\</sub>		11:19	02:34	05:35	36m	06:12	37m	06:49	36m	07:25	9h 22m	16:48	36m	17:24	37m	18:01	36m	18:38	14h 35m	10h 56m				Mo, 30. Jan
Di, 31. Jan		04:50*–05:33*	42m	M <sub>\</sub> bis AN <sub>\</sub>		11:49	03:45	05:34	36m	06:11	36m	06:48	35m	07:24	9h 25m	16:50	35m	17:26	37m	18:03	36m	18:40	14h 32m	10h 53m				Di, 31. Jan
Mi, 1. Feb		—:~:~:~:~	–	Mond stört		12:27	04:50	05:33	36m	06:10	36m	06:47	35m	07:23	9h 28m	16:51	35m	17:27	36m	18:04	36m	18:41	14h 29m	10h 51m				Mi, 1. Feb
Do, 2. Feb		—:~:~:~:~	–	Mond stört		13:15	05:48	05:32	36m	06:09	36m	06:46	35m	07:21	9h 31m	16:53	35m	17:29	36m	18:06	36m	18:42	14h 26m	10h 48m				Do, 2. Feb
Fr, 3. Feb		—:~:~:~:~	–	Mond stört		14:13	06:36	05:31	36m	06:08	36m	06:44	35m	07:20	9h 34m	16:55	35m	17:30	36m	18:07	36m	18:44	14h 23m	10h 46m				Fr, 3. Feb
Sa, 4. Feb		—:~:~:~:~	–	Mond stört		15:17	07:13	05:30	36m	06:06	36m	06:43	35m	07:18	9h 37m	16:56	35m	17:32	36m	18:08	36m	18:45	14h 20m	10h 43m				Sa, 4. Feb
So, 5. Feb		—:~:~:~:~	–	Mond stört	○	16:25	07:42	05:29	36m	06:05	36m	06:42	35m	07:17	9h 40m	16:58	35m	17:33	36m	18:10	36m	18:47	14h 17m	10h 40m				So, 5. Feb
Mo, 6. Feb		—:~:~:~:~	–	Mond stört		17:34	08:05	05:27	36m	06:04	36m	06:40	35m	07:16	9h 43m	17:00	35m	17:35	36m	18:11	36m	18:48	14h 14m	10h 38m				Mo, 6. Feb
Di, 7. Feb		—:~:~:~:~	–	Mond stört		18:43	08:23	05:26	36m	06:02	36m	06:39	35m	07:14	9h 47m	17:01	35m	17:36	36m	18:13	36m	18:49	14h 11m	10h 35m				Di, 7. Feb
Mi, 8. Feb		18:51–19:51	1h 00m	AN <sub>+</sub> bis M <sub>7</sub>		19:51	08:39	05:25	36m	06:01	36m	06:37	35m	07:13	9h 50m	17:03	35m	17:38	36m	18:14	36m	18:51	14h 08m	10h 32m				Mi, 8. Feb
Do, 9. Feb		18:52–21:00	2h 07m	AN <sub>+</sub> bis M <sub>7</sub>		21:00	08:53	05:23	36m	06:00	36m	06:36	34m	07:11	9h 53m	17:04	34m	17:39	36m	18:16	36m	18:52	14h 04m	10h 29m				Do, 9. Feb
Fr, 10. Feb		18:54–22:09	3h 15m	AN <sub>+</sub> bis M <sub>7</sub>		22:09	09:07	05:22	36m	05:58	36m	06:35	34m	07:09	9h 56m	17:06	34m	17:41	36m	18:17	36m	18:54	14h 01m	10h 26m				Fr, 10. Feb
Sa, 11. Feb		18:55–23:21	4h 26m	AN <sub>+</sub> bis M <sub>7</sub>		23:21	09:22	05:20	36m	05:57	36m	06:33	34m	07:08	9h 59m	17:08	34m	17:42	36m	18:19	36m	18:55	13h 58m	10h 23m				Sa, 11. Feb
So, 12. Feb		18:57–00:37*	5h 40m	AN <sub>+</sub> bis M <sub>7</sub>		—:~	09:39	05:19	36m	05:55	36m	06:31	34m	07:06	10h 03m	17:09	34m	17:44	36m	18:20	36							

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
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
		$\Delta t$			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, 20. Feb		19:09–05:05*	9h 56m	AN <sub>+</sub> bis AN <sub>-</sub>	●	07:26	17:34	05:06	36m	05:43	35m	06:18	33m	06:52	10h 30m	17:22	34m	17:56	35m	18:32	36m	19:09	13h 28m	9h 56m				Mo, 20. Feb
Di, 21. Feb		19:10–05:03*	9h 52m	AN <sub>+</sub> bis AN <sub>-</sub>		07:47	19:01	05:05	36m	05:41	35m	06:17	33m	06:50	10h 33m	17:24	33m	17:58	35m	18:34	36m	19:10	13h 24m	9h 52m				Di, 21. Feb
Mi, 22. Feb		20:23–05:01*	8h 37m	M <sub>\</sub> bis AN <sub>-</sub>		08:05	20:23	05:03	36m	05:39	35m	06:15	33m	06:49	10h 36m	17:26	33m	17:59	35m	18:35	36m	19:12	13h 21m	9h 49m				Mi, 22. Feb
Do, 23. Feb		21:44–04:59*	7h 15m	M <sub>\</sub> bis AN <sub>-</sub>		08:22	21:44	05:01	36m	05:37	35m	06:13	33m	06:47	10h 40m	17:27	33m	18:01	35m	18:37	36m	19:13	13h 17m	9h 46m				Do, 23. Feb
Fr, 24. Feb		23:02–04:57*	5h 55m	M <sub>\</sub> bis AN <sub>-</sub>		08:39	23:02	04:59	36m	05:36	35m	06:11	33m	06:45	10h 43m	17:29	33m	18:03	35m	18:38	36m	19:15	13h 14m	9h 42m				Fr, 24. Feb
Sa, 25. Feb		00:19*–04:56*	4h 37m	M <sub>\</sub> bis AN <sub>-</sub>		08:58	—:—	04:57	36m	05:34	35m	06:09	33m	06:43	10h 47m	17:30	33m	18:04	35m	18:40	36m	19:16	13h 10m	9h 39m				Sa, 25. Feb
So, 26. Feb		01:33*–04:54*	3h 21m	M <sub>\</sub> bis AN <sub>-</sub>		09:20	00:19	04:56	36m	05:32	35m	06:08	33m	06:41	10h 50m	17:32	33m	18:06	35m	18:41	36m	19:18	13h 07m	9h 36m				So, 26. Feb
Mo, 27. Feb		02:42*–04:52*	2h 09m	M <sub>\</sub> bis AN <sub>-</sub>	◐	09:48	01:33	04:54	36m	05:30	35m	06:06	33m	06:39	10h 54m	17:34	33m	18:07	35m	18:43	36m	19:19	13h 03m	9h 32m				Mo, 27. Feb
Di, 28. Feb		03:44*–04:50*	1h 06m	M <sub>\</sub> bis AN <sub>-</sub>		10:24	02:42	04:52	36m	05:28	35m	06:04	33m	06:37	10h 57m	17:35	33m	18:09	35m	18:44	36m	19:21	13h 00m	9h 29m				Di, 28. Feb
Mi, 1. Mär		04:35*–04:48*	13m	M <sub>\</sub> bis AN <sub>-</sub>		11:09	03:44	04:50	36m	05:26	35m	06:02	33m	06:35	11h 01m	17:37	33m	18:10	35m	18:46	36m	19:22	12h 56m	9h 25m				Mi, 1. Mär
Do, 2. Mär		—:—:—:—	–	Mond stört		12:03	04:35	04:48	36m	05:24	35m	06:00	33m	06:33	11h 04m	17:38	33m	18:12	35m	18:47	36m	19:24	12h 53m	9h 22m				Do, 2. Mär
Fr, 3. Mär		—:—:—:—	–	Mond stört		13:06	05:15	04:46	36m	05:22	35m	05:58	33m	06:31	11h 08m	17:40	33m	18:13	35m	18:49	36m	19:25	12h 49m	9h 18m				Fr, 3. Mär
Sa, 4. Mär		—:—:~:~:~	–	Mond stört		14:13	05:46	04:44	36m	05:21	35m	05:56	33m	06:29	11h 11m	17:41	33m	18:15	35m	18:50	36m	19:27	12h 46m	9h 14m				Sa, 4. Mär
So, 5. Mär		—:~:~:~:~	–	Mond stört		15:23	06:10	04:42	36m	05:19	35m	05:54	33m	06:27	11h 15m	17:43	33m	18:16	35m	18:52	36m	19:29	12h 42m	9h 11m				So, 5. Mär
Mo, 6. Mär		—:~:~:~:~	–	Mond stört		16:32	06:30	04:40	36m	05:17	35m	05:52	33m	06:25	11h 19m	17:44	33m	18:18	35m	18:53	36m	19:30	12h 38m	9h 07m				Mo, 6. Mär
Di, 7. Mär		—:~:~:~:~	–	Mond stört	○	17:41	06:46	04:38	36m	05:15	35m	05:50	33m	06:23	11h 22m	17:46	33m	18:19	35m	18:55	36m	19:32	12h 35m	9h 03m				Di, 7. Mär
Mi, 8. Mär		—:~:~:~:~	–	Mond stört		18:50	07:01	04:36	36m	05:13	35m	05:48	33m	06:21	11h 26m	17:48	33m	18:21	35m	18:57	36m	19:33	12h 31m	9h 00m				Mi, 8. Mär
Do, 9. Mär		19:35–20:00	25m	AN <sub>+</sub> bis M <sub>7</sub>		20:00	07:15	04:34	36m	05:11	35m	05:46	33m	06:19	11h 29m	17:49	33m	18:22	35m	18:58	37m	19:35	12h 28m	8h 56m				Do, 9. Mär
Fr, 10. Mär		19:37–21:12	1h 35m	AN <sub>+</sub> bis M <sub>7</sub>		21:12	07:29	04:32	36m	05:09	35m	05:44	33m	06:17	11h 33m	17:51	33m	18:24	35m	19:00	37m	19:37	12h 24m	8h 52m				Fr, 10. Mär
Sa, 11. Mär		19:38–22:27	2h 48m	AN <sub>+</sub> bis M <sub>7</sub>		22:27	07:45	04:29	37m	05:06	35m	05:42	33m	06:15	11h 36m	17:52	33m	18:25	35m	19:01	37m	19:38	12h 21m	8h 48m				Sa, 11. Mär
So, 12. Mär		19:40–23:44	4h 04m	AN <sub>+</sub> bis M <sub>7</sub>		23:44	08:04	04:27	37m	05:04	35m	05:40	33m	06:13	11h 40m	17:54	33m	18:27	35m	19:03	37m	19:40	12h 17m	8h 45m				So, 12. Mär
Mo, 13. Mär		19:42–01:03*	5h 21m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	08:29	04:25	37m	05:02	35m	05:38	33m	06:11	11h 43m	17:55	33m	18:28	35m	19:04	37m	19:42	12h 13m	8h 41m				Mo, 13. Mär
Di, 14. Mär		19:43–02:19*	6h 35m	AN <sub>+</sub> bis M <sub>7</sub>		01:03	09:02	04:23	37m	05:00	35m	05:36	33m	06:09	11h 47m	17:57	33m	18:30	35m	19:06	37m	19:43	12h 10m	8h 37m				Di, 14. Mär
Mi, 15. Mär		19:45–03:25*	7h 40m	AN <sub>+</sub> bis M <sub>7</sub>	◑	02:19	09:48	04:21	37m	04:58	35m	05:34	33m	06:07	11h 51m	17:58	33m	18:31	35m	19:07	37m	19:45	12h 06m	8h 33m				Mi, 15. Mär
Do, 16. Mär		19:47–04:16*	8h 29m	AN <sub>+</sub> bis AN <sub>-</sub>		03:25	10:50	04:18	37m	04:56	35m	05:32	33m	06:05	11h 54m	18:00	33m	18:33	36m	19:09	37m	19:47	12h 03m	8h 29m				Do, 16. Mär
Fr, 17. Mär		19:48–04:14*	8h 25m	AN <sub>+</sub> bis AN <sub>-</sub>		04:18	12:07	04:16	37m	04:54	35m	05:30	33m	06:03	11h 58m	18:01	33m	18:34	36m	19:11	37m	19:48	11h 59m	8h 25m				Fr, 17. Mär
Sa, 18. Mär		19:50–04:12*	8h 21m	AN <sub>+</sub> bis AN <sub>-</sub>		04:57	13:33	04:14	37m	04:52	36m	05:28	33m	06:01	12h 01m	18:03	33m	18:36	36m	19:12	37m	19:50	11h 56m	8h 21m				Sa, 18. Mär
So, 19. Mär		19:52–04:09*	8h 17m	AN <sub>+</sub> bis AN <sub>-</sub>		05:26	15:01	04:12	37m	04:50	36m	05:26	33m	05:59	12h 05m	18:04	33m	18:38	36m	19:14	38m	19:52	11h 52m	8h 17m				So, 19. Mär
Mo, 20. Mär		19:54–04:07*	8h 13m	AN <sub>+</sub> bis AN <sub>-</sub>		05:49	16:28	04:09	38m	04:47	36m	05:23	33m	05:57	12h 09m	18:06	33m	18:39	36m	19:15	38m	19:54	11h 48m	8h 13m				Mo, 20. Mär
Di, 21. Mär		19:55–04:05*	8h 09m	AN <sub>+</sub> bis AN <sub>-</sub>	●	06:07	17:52	04:07	38m	04:45	36m	05:21	33m	05:55	12h 12m	18:07	33m	18:41	36m	19:17	38m	19:55	11h 45m	8h 09m				Di, 21. Mär
Mi, 22. Mär		19:57–04:02*	8h 05m	AN <sub>+</sub> bis AN <sub>-</sub>		06:24	19:14	04:05	38m	04:43	36m	05:19	33m	05:53	12h 16m	18:09	33m	18:42	36m	19:19	38m	19:57	11h 41m	8h 05m				Mi, 22. Mär
Do, 23. Mär		20:35–04:00*	7h 24m	M <sub>\</sub> bis AN <sub>-</sub>		06:41	20:35	04:02	38m	04:41	36m	05:17	33m	05:50	12h 19m	18:10	33m	18:44	36m	19:20	38m	19:59	11h 38m	8h 01m				Do, 23. Mär
Fr, 24. Mär		21:55–03:58*	6h 02m	M <sub>\</sub> bis AN <sub>-</sub>		06:59	21:55	04:00	38m	04:39	36m	05:15	33m	05:48	12h 23m	18:12	33m	18:45	36m	19:22	38m	20:01	11h 34m	7h 56m				Fr, 24. Mär
Sa, 25. Mär		23:13–03:55*	4h 42m	M <sub>\</sub> bis AN <sub>-</sub>		07:20	23:13	03:58	38m	04:36	36m	05:13	33m	05:46	12h 26m	18:13	33m	18:47	36m	19:23	39m	20:02	11h 31m	7h 52m				Sa, 25. Mär
So, 26. Mär	MESZ	01:27*–04:53*	3h 25m	M <sub>\</sub> bis AN <sub>-</sub>		08:46	00:13	04:55	38m	05:34	36m	06:11	33m	06:44	12h 30m	19:15	33m	19:48	36m	20:25	39m	21:04	11h 27m	7h 48m				So, 26. Mär
Mo, 27. Mär	MESZ	02:33*–04:50*	2h 16m	M <sub>\</sub> bis AN <sub>-</sub>		09:19	01:27	04:53	39m	05:32	36m	06:09	33m	06:42	12h 34m	19:16	33m	19:50	36m	20:27	39m	21:06	11h 23m	7h 44m				Mo, 27. Mär
Di, 28. Mär	MESZ	03:30*–04:48*	1h 18m	M <sub>\</sub> bis AN <sub>-</sub>		10:00	02:33	04:50	39m	05:30	36m	06:06	33m	06:40	12h 37m	19:18	33m	19:51	37m	20:28	39m	21:08	11h 20m	7h 39m				Di, 28. Mär
Mi, 29. Mär	MESZ	04:15*–04:45*	30m	M <sub>\</sub> bis AN <sub>-</sub>	◒	10:52	03:30	04:48	39m	05:27	36m	06:04	33m	06:38	12h 41m	19:19	33m	19:53	37m	20:30	39m	21:10	11h 16m	7h 35m				Mi, 29. Mär
Do, 30. Mär	MESZ	—:~:~:~:~	–	Mond stört		11:53	04:15	04:45	39m	05:25	37m	06:02	33m	06:36	12h 44m	19:21	33m	19:54	37m	20:32	39m	21:12	11h 13m	7h 31m				Do, 30. Mär
Fr, 31. Mär	MESZ	—:~:~:~:~	–	Mond stört		12:59	04:49	04:43	39m	05:23	37m	06:00	33m	06:34	12h 48m	19:22	33m	19:56	37m	20:33	40m	21:14	11h 09m	7h 26m				Fr, 31. Mär
Sa, 1. Apr	MESZ	—:~:~:~:~	–	Mond stört		14:08	05:15	04:40	40m	05:21	37m	05:58	33m	06:32	12h 51m	19:24	33m	19:57	37m	20:35	40m	21:15	11h 06m	7h 22m				Sa, 1. Apr
So, 2. Apr	MESZ	—:~:~:~:~	–	Mond stört		15:18	05:36	04:38	40m	05:18	37m	05:56	33m	06:30	12h 55m	19:25	33m	19:59	37m	20:37	40m	21:17	11h 02m	7h 18m				So, 2. Apr
Mo, 3. Apr	MESZ	—:~:~:~:~	–	Mond stört		16:27	05:53	04:35	40m	05:16	37m	05:54	33m	06:28	12h 58m													

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
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
			$\Delta t$		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, 11. Apr	MESZ	21:35–02:20*	4h 44m	AN <sub>+</sub> bis M <sub>7</sub>		01:10	08:44	04:15	42m	04:58	38m	05:37	34m	06:11	13h 26m	19:38	34m	20:13	39m	20:52	43m	21:35	10h 31m	6h 36m				Di, 11. Apr
Mi, 12. Apr	MESZ	21:38–03:16*	5h 38m	AN <sub>+</sub> bis M <sub>7</sub>		02:20	09:41	04:12	43m	04:56	39m	05:35	34m	06:09	13h 30m	19:40	34m	20:15	39m	20:54	43m	21:38	10h 27m	6h 32m				Mi, 12. Apr
Do, 13. Apr	MESZ	21:40–03:58*	6h 18m	AN <sub>+</sub> bis M <sub>7</sub>	☾	03:16	10:52	04:10	43m	04:53	39m	05:32	34m	06:07	13h 33m	19:41	35m	20:16	39m	20:56	43m	21:40	10h 24m	6h 27m				Do, 13. Apr
Fr, 14. Apr	MESZ	21:42–04:04*	6h 22m	AN <sub>+</sub> bis AN <sub>-</sub>		03:58	12:14	04:07	43m	04:51	39m	05:30	34m	06:05	13h 37m	19:43	35m	20:18	39m	20:58	44m	21:42	10h 20m	6h 22m				Fr, 14. Apr
Sa, 15. Apr	MESZ	21:44–04:02*	6h 17m	AN <sub>+</sub> bis AN <sub>-</sub>		04:29	13:39	04:04	44m	04:49	39m	05:28	35m	06:03	13h 40m	19:44	35m	20:19	39m	20:59	44m	21:44	10h 17m	6h 17m				Sa, 15. Apr
So, 16. Apr	MESZ	21:46–03:59*	6h 12m	AN <sub>+</sub> bis AN <sub>-</sub>		04:53	15:04	04:02	44m	04:46	39m	05:26	35m	06:01	13h 44m	19:46	35m	20:21	40m	21:01	45m	21:46	10h 13m	6h 12m				So, 16. Apr
Mo, 17. Apr	MESZ	21:48–03:56*	6h 07m	AN <sub>+</sub> bis AN <sub>-</sub>		05:12	16:27	03:59	45m	04:44	40m	05:24	35m	06:00	13h 47m	19:47	35m	20:23	40m	21:03	45m	21:48	10h 10m	6h 07m				Mo, 17. Apr
Di, 18. Apr	MESZ	21:51–03:54*	6h 02m	AN <sub>+</sub> bis AN <sub>-</sub>		05:29	17:48	03:56	45m	04:42	40m	05:22	35m	05:58	13h 51m	19:49	35m	20:24	40m	21:05	45m	21:51	10h 07m	6h 02m				Di, 18. Apr
Mi, 19. Apr	MESZ	21:53–03:51*	5h 57m	AN <sub>+</sub> bis AN <sub>-</sub>		05:45	19:08	03:54	45m	04:40	40m	05:20	35m	05:56	13h 54m	19:50	35m	20:26	40m	21:07	46m	21:53	10h 03m	5h 57m				Mi, 19. Apr
Do, 20. Apr	MESZ	21:55–03:48*	5h 52m	AN <sub>+</sub> bis AN <sub>-</sub>	☀	06:02	20:29	03:51	46m	04:37	40m	05:18	35m	05:54	13h 57m	19:52	35m	20:28	41m	21:09	46m	21:55	10h 00m	5h 52m				Do, 20. Apr
Fr, 21. Apr	MESZ	21:58–03:46*	5h 47m	AN <sub>+</sub> bis AN <sub>-</sub>		06:21	21:48	03:48	46m	04:35	41m	05:16	35m	05:52	14h 01m	19:53	36m	20:29	41m	21:10	47m	21:58	9h 56m	5h 47m				Fr, 21. Apr
Sa, 22. Apr	MESZ	23:05–03:43*	4h 37m	M <sub>\</sub> bis AN <sub>-</sub>		06:45	23:05	03:46	47m	04:33	41m	05:14	36m	05:50	14h 04m	19:55	36m	20:31	41m	21:12	47m	22:00	9h 53m	5h 42m				Sa, 22. Apr
So, 23. Apr	MESZ	00:17*–03:40*	3h 22m	M <sub>\</sub> bis AN <sub>-</sub>		07:14	—:—	03:43	47m	04:30	41m	05:12	36m	05:48	14h 07m	19:56	36m	20:32	41m	21:14	48m	22:02	9h 50m	5h 37m				So, 23. Apr
Mo, 24. Apr	MESZ	01:20*–03:37*	2h 17m	M <sub>\</sub> bis AN <sub>-</sub>		07:52	00:17	03:40	48m	04:28	41m	05:10	36m	05:46	14h 11m	19:57	36m	20:34	42m	21:16	48m	22:05	9h 47m	5h 32m				Mo, 24. Apr
Di, 25. Apr	MESZ	02:10*–03:35*	1h 24m	M <sub>\</sub> bis AN <sub>-</sub>		08:41	01:20	03:37	48m	04:26	42m	05:08	36m	05:45	14h 14m	19:59	36m	20:36	42m	21:18	49m	22:07	9h 43m	5h 27m				Di, 25. Apr
Mi, 26. Apr	MESZ	02:49*–03:32*	43m	M <sub>\</sub> bis AN <sub>-</sub>		09:39	02:10	03:35	49m	04:24	42m	05:06	36m	05:43	14h 17m	20:00	36m	20:37	42m	21:20	49m	22:10	9h 40m	5h 22m				Mi, 26. Apr
Do, 27. Apr	MESZ	03:18*–03:29*	11m	M <sub>\</sub> bis AN <sub>-</sub>	☾	10:44	02:49	03:32	49m	04:22	42m	05:04	36m	05:41	14h 20m	20:02	36m	20:39	42m	21:22	50m	22:12	9h 37m	5h 16m				Do, 27. Apr
Fr, 28. Apr	MESZ	—:—:—:—	–	Mond stört		11:52	03:18	03:29	50m	04:19	42m	05:02	36m	05:39	14h 24m	20:03	37m	20:40	43m	21:24	50m	22:15	9h 34m	5h 11m				Fr, 28. Apr
Sa, 29. Apr	MESZ	—:—:—:—	–	Mond stört		13:02	03:40	03:26	50m	04:17	43m	05:00	37m	05:37	14h 27m	20:05	37m	20:42	43m	21:26	51m	22:17	9h 30m	5h 06m				Sa, 29. Apr
So, 30. Apr	MESZ	—:—:—:—	–	Mond stört		14:11	03:59	03:23	51m	04:15	43m	04:58	37m	05:36	14h 30m	20:06	37m	20:44	43m	21:28	52m	22:20	9h 27m	5h 01m				So, 30. Apr
Mo, 1. Mai	MESZ	—:—:—:—	–	Mond stört		15:20	04:14	03:21	52m	04:13	43m	04:57	37m	05:34	14h 33m	20:08	37m	20:45	44m	21:29	52m	22:22	9h 24m	4h 55m				Mo, 1. Mai
Di, 2. Mai	MESZ	—:—:~:~:~	–	Mond stört		16:30	04:28	03:18	52m	04:11	44m	04:55	37m	05:32	14h 36m	20:09	37m	20:47	44m	21:31	53m	22:25	9h 21m	4h 50m				Di, 2. Mai
Mi, 3. Mai	MESZ	—:~:~:~:~	–	Mond stört		17:41	04:42	03:15	53m	04:08	44m	04:53	37m	05:31	14h 39m	20:11	38m	20:49	44m	21:33	54m	22:27	9h 18m	4h 44m				Mi, 3. Mai
Do, 4. Mai	MESZ	—:~:~:~:~	–	Mond stört		18:56	04:57	03:12	54m	04:06	44m	04:51	38m	05:29	14h 42m	20:12	38m	20:50	45m	21:35	54m	22:30	9h 15m	4h 39m				Do, 4. Mai
Fr, 5. Mai	MESZ	—:~:~:~:~	–	Mond stört	☾	20:14	05:14	03:09	54m	04:04	45m	04:49	38m	05:27	14h 45m	20:13	38m	20:52	45m	21:37	55m	22:33	9h 12m	4h 33m				Fr, 5. Mai
Sa, 6. Mai	MESZ	—:~:~:~:~	–	Mond stört		21:35	05:35	03:07	55m	04:02	45m	04:47	38m	05:26	14h 48m	20:15	38m	20:53	45m	21:39	56m	22:35	9h 09m	4h 28m				Sa, 6. Mai
So, 7. Mai	MESZ	22:38–22:56	18m	AN <sub>+</sub> bis M <sub>7</sub>		22:56	06:03	03:04	56m	04:00	45m	04:46	38m	05:24	14h 51m	20:16	38m	20:55	46m	21:41	57m	22:38	9h 06m	4h 22m				So, 7. Mai
Mo, 8. Mai	MESZ	22:41–00:11*	1h 29m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	06:41	03:01	57m	03:58	46m	04:44	38m	05:23	14h 54m	20:18	38m	20:57	46m	21:43	57m	22:41	9h 03m	4h 17m				Mo, 8. Mai
Di, 9. Mai	MESZ	22:44–01:13*	2h 28m	AN <sub>+</sub> bis M <sub>7</sub>		00:11	07:34	02:58	57m	03:56	46m	04:42	38m	05:21	14h 57m	20:19	39m	20:58	46m	21:45	58m	22:44	9h 00m	4h 11m				Di, 9. Mai
Mi, 10. Mai	MESZ	22:47–01:59*	3h 12m	AN <sub>+</sub> bis M <sub>7</sub>		01:13	08:42	02:55	58m	03:54	46m	04:41	39m	05:20	15h 00m	20:20	39m	21:00	47m	21:47	59m	22:47	8h 57m	4h 05m				Mi, 10. Mai
Do, 11. Mai	MESZ	22:49–02:33*	3h 43m	AN <sub>+</sub> bis M <sub>7</sub>		01:59	10:02	02:52	59m	03:52	47m	04:39	39m	05:18	15h 03m	20:22	39m	21:01	47m	21:49	1h 00m	22:49	8h 55m	3h 59m				Do, 11. Mai
Fr, 12. Mai	MESZ	22:52–02:46*	3h 54m	AN <sub>+</sub> bis AN <sub>-</sub>	☾	02:33	11:26	02:49	1h 00m	03:50	47m	04:37	39m	05:17	15h 06m	20:23	39m	21:03	47m	21:51	1h 01m	22:52	8h 52m	3h 54m				Fr, 12. Mai
Sa, 13. Mai	MESZ	22:55–02:44*	3h 48m	AN <sub>+</sub> bis AN <sub>-</sub>		02:58	12:50	02:46	1h 01m	03:48	47m	04:36	39m	05:15	15h 09m	20:25	39m	21:04	48m	21:53	1h 02m	22:55	8h 49m	3h 48m				Sa, 13. Mai
So, 14. Mai	MESZ	22:58–02:41*	3h 42m	AN <sub>+</sub> bis AN <sub>-</sub>		03:18	14:12	02:44	1h 02m	03:46	48m	04:34	39m	05:14	15h 11m	20:26	40m	21:06	48m	21:55	1h 03m	22:58	8h 46m	3h 42m				So, 14. Mai
Mo, 15. Mai	MESZ	23:01–02:38*	3h 36m	AN <sub>+</sub> bis AN <sub>-</sub>		03:35	15:31	02:41	1h 03m	03:44	48m	04:33	40m	05:13	15h 14m	20:27	40m	21:08	49m	21:57	1h 04m	23:01	8h 44m	3h 36m				Mo, 15. Mai
Di, 16. Mai	MESZ	23:04–02:35*	3h 30m	AN <sub>+</sub> bis AN <sub>-</sub>		03:51	16:50	02:38	1h 04m	03:42	49m	04:31	40m	05:11	15h 17m	20:29	40m	21:09	49m	21:58	1h 05m	23:04	8h 41m	3h 30m				Di, 16. Mai
Mi, 17. Mai	MESZ	23:07–02:32*	3h 24m	AN <sub>+</sub> bis AN <sub>-</sub>		04:07	18:08	02:35	1h 05m	03:40	49m	04:30	40m	05:10	15h 19m	20:30	40m	21:11	49m	22:00	1h 06m	23:07	8h 39m	3h 24m				Mi, 17. Mai
Do, 18. Mai	MESZ	23:10–02:29*	3h 18m	AN <sub>+</sub> bis AN <sub>-</sub>		04:25	19:27	02:32	1h 06m	03:38	49m	04:28	40m	05:09	15h 22m	20:31	40m	21:12	50m	22:02	1h 07m	23:10	8h 36m	3h 18m				Do, 18. Mai
Fr, 19. Mai	MESZ	23:13–02:26*	3h 12m	AN <sub>+</sub> bis AN <sub>-</sub>	☀	04:46	20:44	02:29	1h 07m	03:37	50m	04:27	40m	05:08	15h 24m	20:32	41m	21:14	50m	22:04	1h 09m	23:13	8h 34m	3h 12m				Fr, 19. Mai
Sa, 20. Mai	MESZ	23:16–02:23*	3h 06m	AN <sub>+</sub> bis AN <sub>-</sub>		05:13	21:59	02:26	1h 09m	03:35	50m	04:26	41m	05:07	15h 27m	20:34	41m	21:15	50m	22:06	1h 10m	23:16	8h 31m	3h 06m				Sa, 20. Mai
So, 21. Mai	MESZ	23:19–02:20*	3h 00m	AN <sub>+</sub> bis AN <sub>-</sub>		05:47	23:06	02:23	1h 10m	03:33	50m	04:24	41m	05:05	15h 29m	20:35	41m	21:16	51m	22:08	1h 11m	23:19	8h 29m	3h 00m				So, 21. Mai
Mo, 22. Mai	MESZ	00:02*–02:17*	2h 15m	M <sub>\</sub> bis AN <sub>-</sub>		06:31	—:—	02:20	1h 11m	03:32	51m	04:23	41m	05:04	15h 31m	20:36	41m	21:18	51m	22:10	1h 12m	23:23	8h 27m	2h 5				

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
2023	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
	zone		$\Delta t$		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.	$\Delta t$	$\Delta t$		$\Delta t$		
Mi, 31. Mai	MESZ	—:—:—:—:—	—	Mond stört		16:33	03:02	01:52	1h 26m	03:18	54m	04:13	43m	04:56	15h 49m	20:46	43m	21:29	55m	22:25	1h 28m	23:53	8h 09m	1h 56m				Mi, 31. Mai
Do, 1. Jun	MESZ	—:—:—:—:—	—	Mond stört		17:50	03:17	01:49	1h 28m	03:17	55m	04:12	43m	04:55	15h 51m	20:47	43m	21:31	55m	22:26	1h 30m	23:56	8h 07m	1h 49m				Do, 1. Jun
Fr, 2. Jun	MESZ	—:—:~:~:~:~	—	Mond stört		19:10	03:36	01:46	1h 30m	03:16	55m	04:11	43m	04:55	15h 53m	20:48	43m	21:32	55m	22:28	1h 32m	00:00*	8h 06m	1h 42m				Fr, 2. Jun
Sa, 3. Jun	MESZ	—:~:~:~:~:~	—	Mond stört		20:33	04:01	01:42	1h 32m	03:15	55m	04:11	43m	04:54	15h 54m	20:49	43m	21:33	56m	22:29	1h 34m	00:04*	8h 04m	1h 35m				Sa, 3. Jun
So, 4. Jun	MESZ	—:~:~:~:~:~	—	Mond stört	○	21:53	04:35	01:39	1h 34m	03:14	56m	04:10	43m	04:54	15h 56m	20:50	43m	21:34	56m	22:30	1h 36m	00:07*	8h 03m	1h 28m				So, 4. Jun
Mo, 5. Jun	MESZ	—:~:~:~:~:~	—	Mond stört		23:02	05:23	01:36	1h 36m	03:13	56m	04:09	43m	04:53	15h 57m	20:51	44m	21:35	56m	22:32	1h 39m	00:11*	8h 01m	1h 21m				Mo, 5. Jun
Di, 6. Jun	MESZ	—:~:~:~:~:~	—	Mond stört		23:56	06:27	01:32	1h 39m	03:12	56m	04:09	44m	04:53	15h 59m	20:52	44m	21:36	57m	22:33	1h 42m	00:15*	8h 00m	1h 13m				Di, 6. Jun
Mi, 7. Jun	MESZ	00:19*—00:35*	15m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	07:46	01:29	1h 42m	03:11	57m	04:08	44m	04:52	16h 00m	20:52	44m	21:37	57m	22:34	1h 45m	00:19*	7h 59m	1h 05m				Mi, 7. Jun
Do, 8. Jun	MESZ	00:24*—01:03*	39m	AN <sub>+</sub> bis M <sub>7</sub>		00:35	09:11	01:25	1h 45m	03:10	57m	04:07	44m	04:52	16h 01m	20:53	44m	21:38	57m	22:35	1h 48m	00:24*	7h 58m	57m				Do, 8. Jun
Fr, 9. Jun	MESZ	00:28*—01:17*	48m	AN <sub>+</sub> bis AN <sub>-</sub>		01:03	10:38	01:21	1h 48m	03:09	57m	04:07	44m	04:51	16h 02m	20:54	44m	21:38	57m	22:36	1h 52m	00:28*	7h 57m	48m				Fr, 9. Jun
Sa, 10. Jun	MESZ	00:34*—01:12*	38m	AN <sub>+</sub> bis AN <sub>-</sub>	●	01:25	12:01	01:17	1h 52m	03:09	57m	04:07	44m	04:51	16h 03m	20:55	44m	21:39	58m	22:37	1h 56m	00:34*	7h 56m	38m				Sa, 10. Jun
So, 11. Jun	MESZ	00:40*—01:06*	25m	AN <sub>+</sub> bis AN <sub>-</sub>		01:42	13:21	01:12	1h 56m	03:08	58m	04:06	44m	04:51	16h 04m	20:55	44m	21:40	58m	22:38	2h 01m	00:40*	7h 55m	25m				So, 11. Jun
Mo, 12. Jun	MESZ			Astr. MD		01:58	14:39	01:06	2h 01m	03:07	58m	04:06	44m	04:51	16h 05m	20:56	44m	21:41	58m	22:39		—:—	7h 54m		22:39—02:14*	3h 34m	ND <sub>+</sub> bis M <sub>7</sub>	Mo, 12. Jun
Di, 13. Jun	MESZ			Astr. MD		02:14	15:56	—:—		03:07	58m	04:06	44m	04:50	16h 05m	20:56	44m	21:41	58m	22:40		—:—	7h 53m		22:40—02:31*	3h 50m	ND <sub>+</sub> bis M <sub>7</sub>	Di, 13. Jun
Mi, 14. Jun	MESZ			Astr. MD		02:31	17:12	—:—		03:07	58m	04:05	44m	04:50	16h 06m	20:57	44m	21:42	58m	22:41		—:—	7h 53m		22:41—02:50*	4h 09m	ND <sub>+</sub> bis M <sub>7</sub>	Mi, 14. Jun
Do, 15. Jun	MESZ			Astr. MD		02:50	18:29	—:—		03:06	58m	04:05	44m	04:50	16h 07m	20:57	44m	21:42	59m	22:41		—:—	7h 52m		22:41—03:06*	4h 24m	ND <sub>+</sub> bis ND <sub>-</sub>	Do, 15. Jun
Fr, 16. Jun	MESZ			Astr. MD		03:14	19:44	—:—		03:06	59m	04:05	44m	04:50	16h 07m	20:58	45m	21:43	59m	22:42		—:—	7h 52m		22:42—03:06*	4h 23m	ND <sub>+</sub> bis ND <sub>-</sub>	Fr, 16. Jun
Sa, 17. Jun	MESZ			Astr. MD		03:45	20:53	—:—		03:06	59m	04:05	45m	04:50	16h 08m	20:58	45m	21:43	59m	22:43		—:—	7h 51m		22:43—03:06*	4h 23m	ND <sub>+</sub> bis ND <sub>-</sub>	Sa, 17. Jun
So, 18. Jun	MESZ			Astr. MD	●	04:26	21:53	—:—		03:06	59m	04:05	45m	04:50	16h 08m	20:59	45m	21:44	59m	22:43		—:—	7h 51m		22:43—03:06*	4h 22m	ND <sub>+</sub> bis ND <sub>-</sub>	So, 18. Jun
Mo, 19. Jun	MESZ			Astr. MD		05:16	22:41	—:—		03:06	59m	04:05	45m	04:50	16h 08m	20:59	45m	21:44	59m	22:43		—:—	7h 51m		22:43—03:06*	4h 22m	ND <sub>+</sub> bis ND <sub>-</sub>	Mo, 19. Jun
Di, 20. Jun	MESZ			Astr. MD		06:17	23:18	—:—		03:06	59m	04:05	45m	04:50	16h 08m	20:59	45m	21:44	59m	22:44		—:—	7h 51m		23:18—03:06*	3h 47m	M <sub>v</sub> bis ND <sub>-</sub>	Di, 20. Jun
Mi, 21. Jun	MESZ			Astr. MD		07:23	23:46	—:—		03:06	59m	04:05	45m	04:51	16h 08m	20:59	45m	21:45	59m	22:44		—:—	7h 51m		23:46—03:06*	3h 20m	M <sub>v</sub> bis ND <sub>-</sub>	Mi, 21. Jun
Do, 22. Jun	MESZ			Astr. MD		08:32	—:—	—:—		03:06	59m	04:06	45m	04:51	16h 08m	21:00	45m	21:45	59m	22:44		—:—	7h 51m		00:07*—03:06*	2h 59m	M <sub>v</sub> bis ND <sub>-</sub>	Do, 22. Jun
Fr, 23. Jun	MESZ			Astr. MD		09:41	00:07	—:—		03:06	59m	04:06	45m	04:51	16h 08m	21:00	45m	21:45	59m	22:44		—:—	7h 51m		00:25*—03:07*	2h 42m	M <sub>v</sub> bis ND <sub>-</sub>	Fr, 23. Jun
Sa, 24. Jun	MESZ			Astr. MD		10:49	00:25	—:—		03:07	59m	04:06	45m	04:51	16h 08m	21:00	45m	21:45	59m	22:44		—:—	7h 51m		00:39*—03:07*	2h 27m	M <sub>v</sub> bis ND <sub>-</sub>	Sa, 24. Jun
So, 25. Jun	MESZ			Astr. MD		11:56	00:39	—:—		03:07	59m	04:07	45m	04:52	16h 08m	21:00	45m	21:45	59m	22:44		—:—	7h 52m		00:53*—03:08*	2h 14m	M <sub>v</sub> bis ND <sub>-</sub>	So, 25. Jun
Mo, 26. Jun	MESZ			Astr. MD	◐	13:04	00:53	—:—		03:08	59m	04:07	45m	04:52	16h 07m	21:00	45m	21:45	59m	22:44		—:—	7h 52m		01:07*—03:08*	2h 01m	M <sub>v</sub> bis ND <sub>-</sub>	Mo, 26. Jun
Di, 27. Jun	MESZ			Astr. MD		14:14	01:07	—:—		03:08	59m	04:07	45m	04:52	16h 07m	21:00	44m	21:45	58m	22:44		—:—	7h 53m		01:21*—03:09*	1h 47m	M <sub>v</sub> bis ND <sub>-</sub>	Di, 27. Jun
Mi, 28. Jun	MESZ			Astr. MD		15:26	01:21	—:—		03:09	58m	04:08	44m	04:53	16h 06m	21:00	44m	21:45	58m	22:44		—:—	7h 53m		01:38*—03:10*	1h 31m	M <sub>v</sub> bis ND <sub>-</sub>	Mi, 28. Jun
Do, 29. Jun	MESZ			Astr. MD		16:44	01:38	—:—		03:10	58m	04:09	44m	04:53	16h 06m	21:00	44m	21:45	58m	22:43		—:—	7h 54m		02:00*—03:11*	1h 10m	M <sub>v</sub> bis ND <sub>-</sub>	Do, 29. Jun
Fr, 30. Jun	MESZ	—:~:~:~:~:~	—	Mond stört		18:05	02:00	—:—		03:11	58m	04:09	44m	04:54	16h 05m	21:00	44m	21:44	58m	22:43	2h 04m	00:47*	7h 55m	19m				Fr, 30. Jun
Sa, 1. Jul	MESZ	—:~:~:~:~:~	—	Mond stört		19:27	02:28	01:07	2h 04m	03:11	58m	04:10	44m	04:55	16h 04m	20:59	44m	21:44	58m	22:42	1h 58m	00:40*	7h 55m	34m				Sa, 1. Jul
So, 2. Jul	MESZ	—:~:~:~:~:~	—	Mond stört		20:42	03:09	01:14	1h 58m	03:12	58m	04:11	44m	04:55	16h 03m	20:59	44m	21:44	58m	22:42	1h 53m	00:35*	7h 56m	44m				So, 2. Jul
Mo, 3. Jul	MESZ	—:~:~:~:~:~	—	Mond stört	○	21:44	04:06	01:20	1h 53m	03:13	58m	04:11	44m	04:56	16h 02m	20:59	44m	21:43	57m	22:41	1h 49m	00:31*	7h 57m	54m				Mo, 3. Jul
Di, 4. Jul	MESZ	—:~:~:~:~:~	—	Mond stört		22:30	05:21	01:25	1h 49m	03:14	57m	04:12	44m	04:57	16h 01m	20:58	44m	21:43	57m	22:40	1h 46m	00:27*	7h 58m	1h 02m				Di, 4. Jul
Mi, 5. Jul	MESZ	—:~:~:~:~:~	—	Mond stört		23:04	06:47	01:29	1h 46m	03:15	57m	04:13	44m	04:57	16h 00m	20:58	44m	21:42	57m	22:39	1h 43m	00:23*	8h 00m	1h 10m				Mi, 5. Jul
Do, 6. Jul	MESZ	—:~:~:~:~:~	—	Mond stört		23:28	08:17	01:33	1h 43m	03:17	57m	04:14	44m	04:58	15h 59m	20:58	44m	21:42	56m	22:39	1h 40m	00:19*	8h 01m	1h 18m				Do, 6. Jul
Fr, 7. Jul	MESZ	—:~:~:~:~:~	—	Mond stört		23:48	09:44	01:37	1h 40m	03:18	56m	04:15	44m	04:59	15h 58m	20:57	43m	21:41	56m	22:38	1h 37m	00:15*	8h 02m	1h 25m				Fr, 7. Jul
Sa, 8. Jul	MESZ	—:~:~:~:~:~	—	Mond stört		—:—	11:08	01:41	1h 37m	03:19	56m	04:16	43m	05:00	15h 56m	20:56	43m	21:40	56m	22:37	1h 35m	00:12*	8h 04m	1h 32m				Sa, 8. Jul
So, 9. Jul	MESZ	00:09*—00:21*	11m	AN <sub>+</sub> bis M <sub>7</sub>		00:05	12:28	01:45	1h 35m	03:20	56m	04:17	43m	05:01	15h 55m	20:56	43m	21:40	56m	22:36	1h 33m	00:09*	8h 05m	1h 39m				So, 9. Jul
Mo, 10. Jul	MESZ	00:05*—00:37*	31m	AN <sub>+</sub> bis M <sub>7</sub>	◐	00:21	13:46	01:49	1h 33m	03:22	56m	04:18	43m	05:01	15h 53m	20:55	43m	21:39	55m	22:34	1h 30m	00:05*	8h 07m	1h 46m				Mo, 10. Jul
Di, 11. Jul	MESZ	00:02*—00:56*	53m	AN <sub>+</sub> bis M <sub>7</sub>		00:37	15:03	01:52	1h 30m	03:23	55m	04:19	43m	05:02	15h 52m	20:55	43m	21:38	55m	22:33	1h 28m	00:02*	8h 08m	1h 53m				Di, 11. Jul
Mi, 12. Jul	MESZ	23:59—01:18*	1h 19m	AN <sub>+</sub> bis M <sub>7</sub>		00:56	16:19	01:56	1h 28m	03:25	55m	04:20	43m	05:03	15h 50m	20:54	43m	21:37	54m	22:32	1h 26m	23:59	8h 10m	2h 00m				Mi, 12. Jul
Do, 13. Jul	MESZ	23:56—01:4																										

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
2023	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
	zone		$\Delta t$		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, 20. Jul	MESZ	23:34–02:26*	2h 51m	AN <sub>+</sub> bis AN <sub>-</sub>		07:30	22:30	02:22	1h 15m	03:37	52m	04:30	41m	05:12	15h 35m	20:47	41m	21:29	51m	22:20	1h 13m	23:34	8h 26m	2h 51m				Do, 20. Jul
Fr, 21. Jul	MESZ	23:31–02:29*	2h 57m	AN <sub>+</sub> bis AN <sub>-</sub>		08:38	22:46	02:26	1h 13m	03:39	51m	04:31	41m	05:13	15h 32m	20:46	41m	21:27	51m	22:19	1h 12m	23:31	8h 28m	2h 57m				Fr, 21. Jul
Sa, 22. Jul	MESZ	23:28–02:32*	3h 03m	AN <sub>+</sub> bis AN <sub>-</sub>		09:45	22:59	02:29	1h 12m	03:41	51m	04:33	41m	05:14	15h 30m	20:45	41m	21:26	51m	22:17	1h 10m	23:28	8h 30m	3h 03m				Sa, 22. Jul
So, 23. Jul	MESZ	23:25–02:35*	3h 09m	AN <sub>+</sub> bis AN <sub>-</sub>		10:52	23:13	02:32	1h 10m	03:43	51m	04:34	41m	05:15	15h 28m	20:43	41m	21:25	50m	22:15	1h 09m	23:25	8h 33m	3h 09m				So, 23. Jul
Mo, 24. Jul	MESZ	23:26–02:38*	3h 11m	M <sub>\</sub> bis AN <sub>-</sub>		12:00	23:26	02:35	1h 09m	03:45	50m	04:35	41m	05:17	15h 25m	20:42	40m	21:23	50m	22:14	1h 08m	23:22	8h 35m	3h 15m				Mo, 24. Jul
Di, 25. Jul	MESZ	23:41–02:41*	2h 59m	M <sub>\</sub> bis AN <sub>-</sub>		13:10	23:41	02:38	1h 08m	03:46	50m	04:37	41m	05:18	15h 23m	20:41	40m	21:22	49m	22:12	1h 07m	23:19	8h 37m	3h 21m				Di, 25. Jul
Mi, 26. Jul	MESZ	00:00*–02:44*	2h 43m	M <sub>\</sub> bis AN <sub>-</sub>	☾	14:23	—:—	02:41	1h 07m	03:48	49m	04:38	40m	05:19	15h 20m	20:40	40m	21:20	49m	22:10	1h 06m	23:16	8h 40m	3h 27m				Mi, 26. Jul
Do, 27. Jul	MESZ	00:24*–02:47*	2h 22m	M <sub>\</sub> bis AN <sub>-</sub>		15:40	00:00	02:44	1h 06m	03:50	49m	04:40	40m	05:20	15h 18m	20:39	40m	21:19	49m	22:08	1h 05m	23:13	8h 42m	3h 33m				Do, 27. Jul
Fr, 28. Jul	MESZ	00:58*–02:50*	1h 51m	M <sub>\</sub> bis AN <sub>-</sub>		17:00	00:24	02:47	1h 05m	03:52	49m	04:41	40m	05:21	15h 15m	20:37	40m	21:17	48m	22:06	1h 03m	23:10	8h 45m	3h 39m				Fr, 28. Jul
Sa, 29. Jul	MESZ	01:46*–02:53*	1h 06m	M <sub>\</sub> bis AN <sub>-</sub>		18:18	00:58	02:50	1h 03m	03:54	48m	04:43	40m	05:23	15h 13m	20:36	40m	21:16	48m	22:04	1h 02m	23:07	8h 48m	3h 45m				Sa, 29. Jul
So, 30. Jul	MESZ	02:52*–02:55*	3m	M <sub>\</sub> bis AN <sub>-</sub>		19:27	01:46	02:53	1h 02m	03:56	48m	04:44	40m	05:24	15h 10m	20:35	39m	21:14	48m	22:02	1h 01m	23:04	8h 50m	3h 51m				So, 30. Jul
Mo, 31. Jul	MESZ	—:—:—:—	–	Mond stört		20:21	02:52	02:55	1h 01m	03:57	48m	04:46	39m	05:25	15h 07m	20:33	39m	21:13	47m	22:00	1h 01m	23:01	8h 53m	3h 56m				Mo, 31. Jul
Di, 1. Aug	MESZ	—:—:—:—	–	Mond stört	☾	21:00	04:14	02:58	1h 01m	03:59	47m	04:47	39m	05:27	15h 05m	20:32	39m	21:11	47m	21:58	1h 00m	22:59	8h 56m	4h 02m				Di, 1. Aug
Mi, 2. Aug	MESZ	—:—:~:~	–	Mond stört		21:28	05:45	03:01	1h 00m	04:01	47m	04:49	39m	05:28	15h 02m	20:30	39m	21:09	46m	21:56	59m	22:56	8h 59m	4h 08m				Mi, 2. Aug
Do, 3. Aug	MESZ	—:~:~:~	–	Mond stört		21:50	07:16	03:04	59m	04:03	47m	04:50	39m	05:29	14h 59m	20:29	39m	21:08	46m	21:54	58m	22:53	9h 01m	4h 13m				Do, 3. Aug
Fr, 4. Aug	MESZ	—:~:~:~	–	Mond stört		22:09	08:44	03:07	58m	04:05	46m	04:52	39m	05:31	14h 56m	20:27	38m	21:06	46m	21:52	57m	22:50	9h 04m	4h 19m				Fr, 4. Aug
Sa, 5. Aug	MESZ	—:~:~:~	–	Mond stört		22:25	10:09	03:09	57m	04:07	46m	04:53	38m	05:32	14h 53m	20:26	38m	21:04	45m	21:50	56m	22:47	9h 07m	4h 24m				Sa, 5. Aug
So, 6. Aug	MESZ	—:~:~:~	–	Mond stört		22:42	11:30	03:12	56m	04:09	45m	04:55	38m	05:33	14h 50m	20:24	38m	21:03	45m	21:48	55m	22:44	9h 10m	4h 30m				So, 6. Aug
Mo, 7. Aug	MESZ	22:41–23:00	18m	AN <sub>+</sub> bis M <sub>7</sub>		23:00	12:50	03:15	55m	04:11	45m	04:56	38m	05:35	14h 47m	20:23	38m	21:01	45m	21:46	55m	22:41	9h 13m	4h 35m				Mo, 7. Aug
Di, 8. Aug	MESZ	22:38–23:21	43m	AN <sub>+</sub> bis M <sub>7</sub>	☾	23:21	14:08	03:17	55m	04:12	45m	04:58	38m	05:36	14h 44m	20:21	38m	20:59	44m	21:44	54m	22:38	9h 16m	4h 41m				Di, 8. Aug
Mi, 9. Aug	MESZ	22:36–23:48	1h 12m	AN <sub>+</sub> bis M <sub>7</sub>		23:48	15:25	03:20	54m	04:14	44m	04:59	38m	05:37	14h 41m	20:19	37m	20:57	44m	21:42	53m	22:36	9h 19m	4h 46m				Mi, 9. Aug
Do, 10. Aug	MESZ	22:33–00:22*	1h 49m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	16:38	03:22	53m	04:16	44m	05:01	37m	05:39	14h 38m	20:18	37m	20:55	44m	21:40	53m	22:33	9h 22m	4h 52m				Do, 10. Aug
Fr, 11. Aug	MESZ	22:30–01:06*	2h 36m	AN <sub>+</sub> bis M <sub>7</sub>		00:22	17:43	03:25	53m	04:18	44m	05:02	37m	05:40	14h 35m	20:16	37m	20:53	43m	21:37	52m	22:30	9h 25m	4h 57m				Fr, 11. Aug
Sa, 12. Aug	MESZ	22:27–02:00*	3h 33m	AN <sub>+</sub> bis M <sub>7</sub>		01:06	18:37	03:27	52m	04:20	44m	05:04	37m	05:42	14h 32m	20:14	37m	20:52	43m	21:35	51m	22:27	9h 28m	5h 02m				Sa, 12. Aug
So, 13. Aug	MESZ	22:24–03:03*	4h 38m	AN <sub>+</sub> bis M <sub>7</sub>		02:00	19:20	03:30	51m	04:22	43m	05:06	37m	05:43	14h 29m	20:12	37m	20:50	43m	21:33	51m	22:24	9h 31m	5h 08m				So, 13. Aug
Mo, 14. Aug	MESZ	22:22–03:35*	5h 13m	AN <sub>+</sub> bis AN <sub>-</sub>		03:03	19:53	03:32	51m	04:24	43m	05:07	37m	05:44	14h 26m	20:11	37m	20:48	43m	21:31	50m	22:22	9h 35m	5h 13m				Mo, 14. Aug
Di, 15. Aug	MESZ	22:19–03:37*	5h 18m	AN <sub>+</sub> bis AN <sub>-</sub>		04:11	20:17	03:35	50m	04:26	43m	05:09	37m	05:46	14h 23m	20:09	36m	20:46	42m	21:29	50m	22:19	9h 38m	5h 18m				Di, 15. Aug
Mi, 16. Aug	MESZ	22:16–03:40*	5h 23m	AN <sub>+</sub> bis AN <sub>-</sub>	☾	05:20	20:37	03:37	50m	04:27	42m	05:10	36m	05:47	14h 19m	20:07	36m	20:44	42m	21:26	49m	22:16	9h 41m	5h 23m				Mi, 16. Aug
Do, 17. Aug	MESZ	22:13–03:42*	5h 28m	AN <sub>+</sub> bis AN <sub>-</sub>		06:29	20:53	03:40	49m	04:29	42m	05:12	36m	05:49	14h 16m	20:05	36m	20:42	42m	21:24	49m	22:13	9h 44m	5h 28m				Do, 17. Aug
Fr, 18. Aug	MESZ	22:10–03:44*	5h 33m	AN <sub>+</sub> bis AN <sub>-</sub>		07:37	21:07	03:42	49m	04:31	42m	05:13	36m	05:50	14h 13m	20:03	36m	20:40	41m	21:22	48m	22:10	9h 47m	5h 33m				Fr, 18. Aug
Sa, 19. Aug	MESZ	22:08–03:47*	5h 38m	AN <sub>+</sub> bis AN <sub>-</sub>		08:44	21:20	03:44	48m	04:33	42m	05:15	36m	05:51	14h 10m	20:02	36m	20:38	41m	21:20	48m	22:08	9h 51m	5h 38m				Sa, 19. Aug
So, 20. Aug	MESZ	22:05–03:49*	5h 44m	AN <sub>+</sub> bis AN <sub>-</sub>		09:51	21:33	03:47	48m	04:35	41m	05:16	36m	05:53	14h 07m	20:00	36m	20:36	41m	21:17	47m	22:05	9h 54m	5h 44m				So, 20. Aug
Mo, 21. Aug	MESZ	22:02–03:51*	5h 49m	AN <sub>+</sub> bis AN <sub>-</sub>		10:59	21:47	03:49	47m	04:36	41m	05:18	36m	05:54	14h 03m	19:58	36m	20:34	41m	21:15	47m	22:02	9h 57m	5h 49m				Mo, 21. Aug
Di, 22. Aug	MESZ	22:04–03:53*	5h 49m	M <sub>\</sub> bis AN <sub>-</sub>		12:10	22:04	03:51	47m	04:38	41m	05:19	36m	05:56	14h 00m	19:56	35m	20:32	40m	21:13	46m	21:59	10h 00m	5h 53m				Di, 22. Aug
Mi, 23. Aug	MESZ	22:25–03:56*	5h 30m	M <sub>\</sub> bis AN <sub>-</sub>		13:24	22:25	03:53	46m	04:40	41m	05:21	35m	05:57	13h 57m	19:54	35m	20:30	40m	21:11	46m	21:57	10h 04m	5h 58m				Mi, 23. Aug
Do, 24. Aug	MESZ	22:53–03:58*	5h 04m	M <sub>\</sub> bis AN <sub>-</sub>	☾	14:42	22:53	03:56	46m	04:42	40m	05:23	35m	05:58	13h 53m	19:52	35m	20:28	40m	21:08	45m	21:54	10h 07m	6h 03m				Do, 24. Aug
Fr, 25. Aug	MESZ	23:33–04:00*	4h 26m	M <sub>\</sub> bis AN <sub>-</sub>		15:59	23:33	03:58	45m	04:44	40m	05:24	35m	06:00	13h 50m	19:50	35m	20:26	40m	21:06	45m	21:51	10h 10m	6h 08m				Fr, 25. Aug
Sa, 26. Aug	MESZ	00:29*–04:02*	3h 33m	M <sub>\</sub> bis AN <sub>-</sub>		17:10	—:—	04:00	45m	04:45	40m	05:26	35m	06:01	13h 47m	19:48	35m	20:24	40m	21:04	44m	21:49	10h 14m	6h 13m				Sa, 26. Aug
So, 27. Aug	MESZ	01:42*–04:04*	2h 22m	M <sub>\</sub> bis AN <sub>-</sub>		18:09	00:29	04:02	44m	04:47	40m	05:27	35m	06:03	13h 43m	19:46	35m	20:21	39m	21:01	44m	21:46	10h 17m	6h 18m				So, 27. Aug
Mo, 28. Aug	MESZ	03:08*–04:06*	58m	M <sub>\</sub> bis AN <sub>-</sub>		18:54	01:42	04:04	44m	04:49	39m	05:29	35m	06:04	13h 40m	19:44	35m	20:19	39m	20:59	44m	21:43	10h 21m	6h 23m				Mo, 28. Aug
Di, 29. Aug	MESZ	—:~:~:~	–	Mond stört		19:26	03:08	04:06	44m	04:50	39m	05:30	35m	06:05	13h 36m	19:42	34m	20:17	39m	20:57	43m	21:41	10h 24m	6h 27m				Di, 29. Aug
Mi, 30. Aug	MESZ	—:~:~:~	–	Mond stört		19:51	04:40	04:08	43m	04:52	39m	05:32	35m	06:07	13h 33m	19:40	34m	20:15	39m	20:54	43m	21:38	10h 27m	6h 32m				

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
2023	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
	zone		$\Delta t$		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, 8. Sep	MESZ	21:14–23:53	2h 38m	AN <sub>+</sub> bis M <sub>7</sub>		23:53	16:35	04:26	41m	05:07	37m	05:45	34m	06:19	13h 02m	19:22	34m	19:56	37m	20:34	40m	21:14	10h 58m	7h 13m				Fr, 8. Sep
Sa, 9. Sep	MESZ	21:12–00:54*	3h 41m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	17:21	04:28	40m	05:09	37m	05:47	34m	06:21	12h 59m	19:20	33m	19:54	37m	20:31	40m	21:12	11h 02m	7h 17m				Sa, 9. Sep
So, 10. Sep	MESZ	21:09–02:01*	4h 51m	AN <sub>+</sub> bis M <sub>7</sub>		00:54	17:57	04:30	40m	05:10	37m	05:48	33m	06:22	12h 55m	19:18	33m	19:51	37m	20:29	40m	21:09	11h 05m	7h 22m				So, 10. Sep
Mo, 11. Sep	MESZ	21:07–03:10*	6h 03m	AN <sub>+</sub> bis M <sub>7</sub>		02:01	18:23	04:32	40m	05:12	37m	05:50	33m	06:23	12h 52m	19:16	33m	19:49	37m	20:27	40m	21:07	11h 09m	7h 26m				Mo, 11. Sep
Di, 12. Sep	MESZ	21:04–04:19*	7h 14m	AN <sub>+</sub> bis M <sub>7</sub>		03:10	18:44	04:33	40m	05:14	37m	05:51	33m	06:25	12h 48m	19:13	33m	19:47	37m	20:24	39m	21:04	11h 12m	7h 30m				Di, 12. Sep
Mi, 13. Sep	MESZ	21:02–04:37*	7h 35m	AN <sub>+</sub> bis AN <sub>-</sub>		04:19	19:00	04:35	40m	05:15	37m	05:52	33m	06:26	12h 45m	19:11	33m	19:45	37m	20:22	39m	21:02	11h 16m	7h 35m				Mi, 13. Sep
Do, 14. Sep	MESZ	20:59–04:39*	7h 39m	AN <sub>+</sub> bis AN <sub>-</sub>		05:27	19:15	04:37	39m	05:17	37m	05:54	33m	06:28	12h 41m	19:09	33m	19:43	36m	20:20	39m	20:59	11h 19m	7h 39m				Do, 14. Sep
Fr, 15. Sep	MESZ	20:57–04:41*	7h 43m	AN <sub>+</sub> bis AN <sub>-</sub>	●	06:35	19:28	04:39	39m	05:18	37m	05:55	33m	06:29	12h 38m	19:07	33m	19:41	36m	20:18	39m	20:57	11h 23m	7h 43m				Fr, 15. Sep
Sa, 16. Sep	MESZ	20:54–04:42*	7h 47m	AN <sub>+</sub> bis AN <sub>-</sub>		07:42	19:41	04:41	39m	05:20	36m	05:57	33m	06:30	12h 34m	19:05	33m	19:39	36m	20:15	39m	20:54	11h 26m	7h 47m				Sa, 16. Sep
So, 17. Sep	MESZ	20:52–04:44*	7h 51m	AN <sub>+</sub> bis AN <sub>-</sub>		08:51	19:54	04:42	39m	05:21	36m	05:58	33m	06:32	12h 31m	19:03	33m	19:36	36m	20:13	38m	20:52	11h 30m	7h 51m				So, 17. Sep
Mo, 18. Sep	MESZ	20:50–04:46*	7h 56m	AN <sub>+</sub> bis AN <sub>-</sub>		10:01	20:10	04:44	39m	05:23	36m	06:00	33m	06:33	12h 27m	19:01	33m	19:34	36m	20:11	38m	20:50	11h 33m	7h 56m				Mo, 18. Sep
Di, 19. Sep	MESZ	20:47–04:47*	8h 00m	AN <sub>+</sub> bis AN <sub>-</sub>		11:14	20:29	04:46	38m	05:25	36m	06:01	33m	06:35	12h 24m	18:59	33m	19:32	36m	20:09	38m	20:47	11h 37m	8h 00m				Di, 19. Sep
Mi, 20. Sep	MESZ	20:55–04:49*	7h 54m	M <sub>\</sub> bis AN <sub>-</sub>		12:30	20:55	04:47	38m	05:26	36m	06:03	33m	06:36	12h 20m	18:57	33m	19:30	36m	20:06	38m	20:45	11h 40m	8h 04m				Mi, 20. Sep
Do, 21. Sep	MESZ	21:29–04:51*	7h 21m	M <sub>\</sub> bis AN <sub>-</sub>		13:46	21:29	04:49	38m	05:28	36m	06:04	33m	06:37	12h 16m	18:54	33m	19:28	36m	20:04	38m	20:42	11h 44m	8h 08m				Do, 21. Sep
Fr, 22. Sep	MESZ	22:17–04:52*	6h 35m	M <sub>\</sub> bis AN <sub>-</sub>	☉	14:58	22:17	04:51	38m	05:29	36m	06:06	33m	06:39	12h 13m	18:52	33m	19:26	36m	20:02	38m	20:40	11h 47m	8h 12m				Fr, 22. Sep
Sa, 23. Sep	MESZ	23:21–04:54*	5h 32m	M <sub>\</sub> bis AN <sub>-</sub>		16:00	23:21	04:52	38m	05:31	36m	06:07	33m	06:40	12h 09m	18:50	33m	19:23	36m	20:00	38m	20:38	11h 51m	8h 16m				Sa, 23. Sep
So, 24. Sep	MESZ	00:40*–04:56*	4h 15m	M <sub>\</sub> bis AN <sub>-</sub>		16:49	—:—	04:54	38m	05:32	36m	06:08	33m	06:42	12h 06m	18:48	33m	19:21	36m	19:57	37m	20:35	11h 55m	8h 20m				So, 24. Sep
Mo, 25. Sep	MESZ	02:07*–04:57*	2h 50m	M <sub>\</sub> bis AN <sub>-</sub>		17:25	00:40	04:56	37m	05:34	36m	06:10	33m	06:43	12h 02m	18:46	33m	19:19	36m	19:55	37m	20:33	11h 58m	8h 24m				Mo, 25. Sep
Di, 26. Sep	MESZ	03:36*–04:59*	1h 22m	M <sub>\</sub> bis AN <sub>-</sub>		17:52	02:07	04:57	37m	05:35	36m	06:11	33m	06:45	11h 59m	18:44	33m	19:17	35m	19:53	37m	20:31	12h 02m	8h 28m				Di, 26. Sep
Mi, 27. Sep	MESZ	—:—:—:—	–	Mond stört		18:13	03:36	04:59	37m	05:37	36m	06:13	33m	06:46	11h 55m	18:42	33m	19:15	35m	19:51	37m	20:28	12h 05m	8h 32m				Mi, 27. Sep
Do, 28. Sep	MESZ	—:—:—:—	–	Mond stört		18:31	05:05	05:01	37m	05:38	35m	06:14	33m	06:47	11h 52m	18:40	33m	19:13	35m	19:49	37m	20:26	12h 09m	8h 35m				Do, 28. Sep
Fr, 29. Sep	MESZ	—:—:—:—	–	Mond stört	○	18:48	06:31	05:02	37m	05:40	35m	06:16	33m	06:49	11h 48m	18:38	33m	19:11	35m	19:47	37m	20:24	12h 12m	8h 39m				Fr, 29. Sep
Sa, 30. Sep	MESZ	—:—:~:~:~	–	Mond stört		19:05	07:56	05:04	37m	05:41	35m	06:17	33m	06:50	11h 45m	18:36	33m	19:09	35m	19:44	37m	20:22	12h 16m	8h 43m				Sa, 30. Sep
So, 1. Okt	MESZ	—:~:~:~:~	–	Mond stört		19:24	09:21	05:05	37m	05:43	35m	06:18	33m	06:52	11h 41m	18:33	33m	19:07	35m	19:42	37m	20:19	12h 19m	8h 47m				So, 1. Okt
Mo, 2. Okt	MESZ	—:~:~:~:~	–	Mond stört		19:47	10:45	05:07	37m	05:44	35m	06:20	33m	06:53	11h 38m	18:31	33m	19:05	35m	19:40	37m	20:17	12h 23m	8h 51m				Mo, 2. Okt
Di, 3. Okt	MESZ	20:15–20:17	1m	AN <sub>+</sub> bis M <sub>7</sub>		20:17	12:06	05:08	37m	05:46	35m	06:21	33m	06:55	11h 34m	18:29	33m	19:02	35m	19:38	36m	20:15	12h 26m	8h 54m				Di, 3. Okt
Mi, 4. Okt	MESZ	20:13–20:55	41m	AN <sub>+</sub> bis M <sub>7</sub>		20:55	13:22	05:10	37m	05:47	35m	06:23	33m	06:56	11h 31m	18:27	33m	19:00	35m	19:36	36m	20:13	12h 30m	8h 58m				Mi, 4. Okt
Do, 5. Okt	MESZ	20:11–21:43	1h 32m	AN <sub>+</sub> bis M <sub>7</sub>		21:43	14:27	05:11	36m	05:48	35m	06:24	33m	06:57	11h 27m	18:25	33m	18:58	35m	19:34	36m	20:11	12h 33m	9h 02m				Do, 5. Okt
Fr, 6. Okt	MESZ	20:09–22:42	2h 33m	AN <sub>+</sub> bis M <sub>7</sub>	☾	22:42	15:19	05:13	36m	05:50	35m	06:26	33m	06:59	11h 24m	18:23	33m	18:56	35m	19:32	36m	20:09	12h 37m	9h 05m				Fr, 6. Okt
Sa, 7. Okt	MESZ	20:07–23:48	3h 41m	AN <sub>+</sub> bis M <sub>7</sub>		23:48	15:58	05:15	36m	05:51	35m	06:27	33m	07:00	11h 20m	18:21	33m	18:54	35m	19:30	36m	20:07	12h 40m	9h 09m				Sa, 7. Okt
So, 8. Okt	MESZ	20:05–00:57*	4h 52m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	16:28	05:16	36m	05:53	35m	06:28	33m	07:02	11h 17m	18:19	33m	18:52	35m	19:28	36m	20:05	12h 44m	9h 13m				So, 8. Okt
Mo, 9. Okt	MESZ	20:02–02:07*	6h 04m	AN <sub>+</sub> bis M <sub>7</sub>		00:57	16:50	05:18	36m	05:54	35m	06:30	33m	07:03	11h 13m	18:17	33m	18:50	35m	19:26	36m	20:02	12h 47m	9h 16m				Mo, 9. Okt
Di, 10. Okt	MESZ	20:00–03:16*	7h 15m	AN <sub>+</sub> bis M <sub>7</sub>		02:07	17:08	05:19	36m	05:56	35m	06:31	33m	07:05	11h 10m	18:15	33m	18:48	35m	19:24	36m	20:00	12h 51m	9h 20m				Di, 10. Okt
Mi, 11. Okt	MESZ	19:58–04:23*	8h 24m	AN <sub>+</sub> bis M <sub>7</sub>		03:16	17:23	05:21	36m	05:57	35m	06:33	33m	07:06	11h 06m	18:13	33m	18:46	35m	19:22	36m	19:58	12h 54m	9h 23m				Mi, 11. Okt
Do, 12. Okt	MESZ	19:56–05:24*	9h 27m	AN <sub>+</sub> bis AN <sub>-</sub>		04:23	17:36	05:22	36m	05:59	35m	06:34	33m	07:08	11h 03m	18:11	33m	18:44	35m	19:20	36m	19:56	12h 58m	9h 27m				Do, 12. Okt
Fr, 13. Okt	MESZ	19:54–05:25*	9h 30m	AN <sub>+</sub> bis AN <sub>-</sub>		05:31	17:49	05:24	36m	06:00	35m	06:36	33m	07:09	10h 59m	18:09	33m	18:43	35m	19:18	36m	19:54	13h 01m	9h 30m				Fr, 13. Okt
Sa, 14. Okt	MESZ	19:53–05:27*	9h 33m	AN <sub>+</sub> bis AN <sub>-</sub>	●	06:40	18:02	05:25	36m	06:02	35m	06:37	33m	07:11	10h 56m	18:07	33m	18:41	35m	19:16	36m	19:53	13h 05m	9h 33m				Sa, 14. Okt
So, 15. Okt	MESZ	19:51–05:28*	9h 37m	AN <sub>+</sub> bis AN <sub>-</sub>		07:50	18:17	05:27	36m	06:03	35m	06:39	33m	07:12	10h 52m	18:05	33m	18:39	35m	19:14	36m	19:51	13h 08m	9h 37m				So, 15. Okt
Mo, 16. Okt	MESZ	19:49–05:29*	9h 40m	AN <sub>+</sub> bis AN <sub>-</sub>		09:03	18:35	05:28	36m	06:04	35m	06:40	33m	07:14	10h 49m	18:03	33m	18:37	35m	19:12	36m	19:49	13h 12m	9h 40m				Mo, 16. Okt
Di, 17. Okt	MESZ	19:47–05:31*	9h 44m	AN <sub>+</sub> bis AN <sub>-</sub>		10:19	18:58	05:29	36m	06:06	35m	06:42	33m	07:15	10h 45m	18:01	33m	18:35	35m	19:11	36m	19:47	13h 15m	9h 44m				Di, 17. Okt
Mi, 18. Okt	MESZ	19:45–05:32*	9h 47m	AN <sub>+</sub> bis AN <sub>-</sub>		11:36	19:30	05:31	36m	06:07	35m	06:43	33m	07:17	10h 42m	17:59	33m	18:33	35m	19:09	36m	19:45	13h 18m	9h 47m				Mi, 18. Okt
Do, 19. Okt	MESZ	20:13–05:34*	9h 20m	M <sub>\</sub> bis AN <sub>-</sub>		12:50	20:13	05:32	36m	06:09	35m	06:44	33m	07:18	10h 39m	17:57	33m	18:31	35m	19:07	36m	19:43	13h 22m					

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
2023	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
	zone		$\Delta t$		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, 28. Okt	MESZ	—:—:—:—	—	Mond stört	○	17:26	06:50	05:45	36m	06:22	36m	06:58	34m	07:32	10h 09m	17:41	34m	18:16	36m	18:52	36m	19:28	13h 52m	10h 18m				Sa, 28. Okt
So, 29. Okt		—:—:—:—	—	Mond stört		16:47	07:14	04:47	36m	05:23	36m	05:59	34m	06:34	10h 05m	16:40	34m	17:14	36m	17:50	36m	18:26	13h 55m	10h 21m				So, 29. Okt
Mo, 30. Okt		—:—:—:—	—	Mond stört		17:13	08:38	04:48	36m	05:24	36m	06:01	34m	06:35	10h 02m	16:38	34m	17:12	36m	17:49	36m	18:25	13h 59m	10h 24m				Mo, 30. Okt
Di, 31. Okt		—:—:—:—	—	Mond stört		17:47	09:58	04:49	36m	05:26	36m	06:02	34m	06:37	9h 59m	16:36	34m	17:11	36m	17:47	36m	18:24	14h 02m	10h 27m				Di, 31. Okt
Mi, 1. Nov		18:22–18:32	10m	AN <sub>+</sub> bis M <sub>7</sub>		18:32	11:10	04:51	36m	05:27	36m	06:04	34m	06:38	9h 56m	16:35	34m	17:09	36m	17:46	36m	18:22	14h 05m	10h 30m				Mi, 1. Nov
Do, 2. Nov		18:21–19:28	1h 07m	AN <sub>+</sub> bis M <sub>7</sub>		19:28	12:10	04:52	36m	05:29	36m	06:05	34m	06:40	9h 52m	16:33	34m	17:08	36m	17:44	36m	18:21	14h 08m	10h 32m				Do, 2. Nov
Fr, 3. Nov		18:19–20:33	2h 13m	AN <sub>+</sub> bis M <sub>7</sub>		20:33	12:55	04:54	36m	05:30	36m	06:06	35m	06:42	9h 49m	16:31	35m	17:06	36m	17:43	36m	18:19	14h 11m	10h 35m				Fr, 3. Nov
Sa, 4. Nov		18:18–21:42	3h 23m	AN <sub>+</sub> bis M <sub>7</sub>		21:42	13:29	04:55	36m	05:31	36m	06:08	35m	06:43	9h 46m	16:30	35m	17:05	36m	17:41	36m	18:18	14h 14m	10h 38m				Sa, 4. Nov
So, 5. Nov		18:17–22:52	4h 35m	AN <sub>+</sub> bis M <sub>7</sub>	●	22:52	13:54	04:56	36m	05:33	36m	06:09	35m	06:45	9h 43m	16:28	35m	17:04	36m	17:40	36m	18:17	14h 18m	10h 41m				So, 5. Nov
Mo, 6. Nov		18:15–00:01*	5h 45m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	14:13	04:58	36m	05:34	36m	06:11	35m	06:46	9h 40m	16:27	35m	17:02	36m	17:39	36m	18:15	14h 21m	10h 43m				Mo, 6. Nov
Di, 7. Nov		18:14–01:09*	6h 54m	AN <sub>+</sub> bis M <sub>7</sub>		00:01	14:29	04:59	36m	05:36	36m	06:12	35m	06:48	9h 37m	16:25	35m	17:01	36m	17:37	36m	18:14	14h 24m	10h 46m				Di, 7. Nov
Mi, 8. Nov		18:13–02:16*	8h 03m	AN <sub>+</sub> bis M <sub>7</sub>		01:09	14:43	05:00	36m	05:37	36m	06:14	35m	06:49	9h 34m	16:24	35m	16:59	36m	17:36	36m	18:13	14h 27m	10h 48m				Mi, 8. Nov
Do, 9. Nov		18:12–03:24*	9h 12m	AN <sub>+</sub> bis M <sub>7</sub>		02:16	14:56	05:02	36m	05:38	36m	06:15	35m	06:51	9h 31m	16:22	35m	16:58	36m	17:35	36m	18:12	14h 30m	10h 51m				Do, 9. Nov
Fr, 10. Nov		18:10–04:34*	10h 23m	AN <sub>+</sub> bis M <sub>7</sub>		03:24	15:09	05:03	36m	05:40	36m	06:17	35m	06:53	9h 28m	16:21	35m	16:57	36m	17:34	36m	18:10	14h 33m	10h 53m				Fr, 10. Nov
Sa, 11. Nov		18:09–05:06*	10h 56m	AN <sub>+</sub> bis AN <sub>-</sub>		04:34	15:23	05:04	36m	05:41	37m	06:18	35m	06:54	9h 25m	16:20	35m	16:56	36m	17:33	36m	18:09	14h 35m	10h 56m				Sa, 11. Nov
So, 12. Nov		18:08–05:07*	10h 58m	AN <sub>+</sub> bis AN <sub>-</sub>		05:47	15:40	05:06	36m	05:43	37m	06:20	36m	06:56	9h 22m	16:18	36m	16:54	37m	17:32	36m	18:08	14h 38m	10h 58m				So, 12. Nov
Mo, 13. Nov		18:07–05:08*	11h 01m	AN <sub>+</sub> bis AN <sub>-</sub>	●	07:03	16:02	05:07	36m	05:44	37m	06:21	36m	06:57	9h 19m	16:17	36m	16:53	37m	17:30	36m	18:07	14h 41m	11h 01m				Mo, 13. Nov
Di, 14. Nov		18:06–05:10*	11h 03m	AN <sub>+</sub> bis AN <sub>-</sub>		08:22	16:30	05:08	36m	05:45	37m	06:22	36m	06:59	9h 17m	16:16	36m	16:52	37m	17:29	36m	18:06	14h 44m	11h 03m				Di, 14. Nov
Mi, 15. Nov		18:05–05:11*	11h 05m	AN <sub>+</sub> bis AN <sub>-</sub>		09:39	17:10	05:10	36m	05:47	37m	06:24	36m	07:00	9h 14m	16:15	36m	16:51	37m	17:28	36m	18:05	14h 47m	11h 05m				Mi, 15. Nov
Do, 16. Nov		18:05–05:12*	11h 07m	M <sub>\</sub> bis AN <sub>-</sub>		10:48	18:05	05:11	37m	05:48	37m	06:25	36m	07:02	9h 11m	16:13	36m	16:50	37m	17:27	36m	18:04	14h 49m	11h 07m				Do, 16. Nov
Fr, 17. Nov		19:14–05:13*	9h 58m	M <sub>\</sub> bis AN <sub>-</sub>		11:45	19:14	05:12	37m	05:49	37m	06:27	36m	07:03	9h 08m	16:12	36m	16:49	37m	17:26	37m	18:03	14h 52m	11h 09m				Fr, 17. Nov
Sa, 18. Nov		20:35–05:15*	8h 40m	M <sub>\</sub> bis AN <sub>-</sub>		12:27	20:35	05:13	37m	05:51	37m	06:28	36m	07:05	9h 06m	16:11	36m	16:48	37m	17:26	37m	18:03	14h 55m	11h 12m				Sa, 18. Nov
So, 19. Nov		21:59–05:16*	7h 17m	M <sub>\</sub> bis AN <sub>-</sub>		12:59	21:59	05:15	37m	05:52	37m	06:30	36m	07:06	9h 03m	16:10	36m	16:47	37m	17:25	37m	18:02	14h 57m	11h 14m				So, 19. Nov
Mo, 20. Nov		23:23–05:17*	5h 54m	M <sub>\</sub> bis AN <sub>-</sub>	●	13:22	23:23	05:16	37m	05:53	37m	06:31	36m	07:08	9h 01m	16:09	36m	16:46	37m	17:24	37m	18:01	15h 00m	11h 16m				Mo, 20. Nov
Di, 21. Nov		00:45*–05:18*	4h 33m	M <sub>\</sub> bis AN <sub>-</sub>		13:41	—:—	05:17	37m	05:54	37m	06:32	37m	07:09	8h 58m	16:08	37m	16:45	37m	17:23	37m	18:00	15h 02m	11h 18m				Di, 21. Nov
Mi, 22. Nov		02:06*–05:20*	3h 13m	M <sub>\</sub> bis AN <sub>-</sub>		13:58	00:45	05:18	37m	05:56	37m	06:34	37m	07:11	8h 56m	16:07	37m	16:44	37m	17:22	37m	18:00	15h 05m	11h 20m				Mi, 22. Nov
Do, 23. Nov		03:27*–05:21*	1h 53m	M <sub>\</sub> bis AN <sub>-</sub>		14:13	02:06	05:20	37m	05:57	37m	06:35	37m	07:12	8h 54m	16:06	37m	16:44	37m	17:22	37m	17:59	15h 07m	11h 21m				Do, 23. Nov
Fr, 24. Nov		04:49*–05:22*	33m	M <sub>\</sub> bis AN <sub>-</sub>		14:30	03:27	05:21	37m	05:58	38m	06:36	37m	07:14	8h 51m	16:06	37m	16:43	38m	17:21	37m	17:58	15h 09m	11h 23m				Fr, 24. Nov
Sa, 25. Nov		—:—:—:—	—	Mond stört		14:49	04:49	05:22	37m	05:59	38m	06:38	37m	07:15	8h 49m	16:05	37m	16:42	38m	17:20	37m	17:58	15h 11m	11h 25m				Sa, 25. Nov
So, 26. Nov		—:—:~:~	—	Mond stört		15:12	06:11	05:23	37m	06:01	38m	06:39	37m	07:17	8h 47m	16:04	37m	16:42	38m	17:20	37m	17:57	15h 13m	11h 27m				So, 26. Nov
Mo, 27. Nov		—:~:~:~	—	Mond stört	○	15:42	07:33	05:24	37m	06:02	38m	06:40	37m	07:18	8h 45m	16:03	37m	16:41	38m	17:19	37m	17:57	15h 16m	11h 28m				Mo, 27. Nov
Di, 28. Nov		—:~:~:~	—	Mond stört		16:22	08:49	05:25	37m	06:03	38m	06:41	37m	07:19	8h 43m	16:03	37m	16:40	38m	17:19	37m	17:56	15h 18m	11h 30m				Di, 28. Nov
Mi, 29. Nov		—:~:~:~	—	Mond stört		17:14	09:55	05:27	37m	06:04	38m	06:43	37m	07:21	8h 41m	16:02	37m	16:40	38m	17:18	37m	17:56	15h 20m	11h 31m				Mi, 29. Nov
Do, 30. Nov		17:55–18:16	20m	AN <sub>+</sub> bis M <sub>7</sub>		18:16	10:47	05:28	37m	06:05	38m	06:44	38m	07:22	8h 39m	16:01	38m	16:39	38m	17:18	37m	17:55	15h 21m	11h 33m				Do, 30. Nov
Fr, 1. Dez		17:55–19:24	1h 29m	AN <sub>+</sub> bis M <sub>7</sub>		19:24	11:26	05:29	37m	06:06	38m	06:45	38m	07:23	8h 37m	16:01	38m	16:39	38m	17:17	37m	17:55	15h 23m	11h 34m				Fr, 1. Dez
Sa, 2. Dez		17:55–20:35	2h 40m	AN <sub>+</sub> bis M <sub>7</sub>		20:35	11:55	05:30	37m	06:08	38m	06:46	38m	07:24	8h 35m	16:00	38m	16:38	38m	17:17	37m	17:55	15h 25m	11h 35m				Sa, 2. Dez
So, 3. Dez		17:55–21:45	3h 50m	AN <sub>+</sub> bis M <sub>7</sub>		21:45	12:17	05:31	37m	06:09	38m	06:47	38m	07:26	8h 34m	16:00	38m	16:38	38m	17:17	37m	17:55	15h 27m	11h 37m				So, 3. Dez
Mo, 4. Dez		17:54–22:54	4h 59m	AN <sub>+</sub> bis M <sub>7</sub>		22:54	12:34	05:32	37m	06:10	38m	06:48	38m	07:27	8h 32m	15:59	38m	16:38	38m	17:17	37m	17:54	15h 28m	11h 38m				Mo, 4. Dez
Di, 5. Dez		17:54–00:01*	6h 06m	AN <sub>+</sub> bis M <sub>7</sub>	●	—:—	12:49	05:33	37m	06:11	38m	06:50	38m	07:28	8h 30m	15:59	38m	16:38	38m	17:16	37m	17:54	15h 30m	11h 39m				Di, 5. Dez
Mi, 6. Dez		17:54–01:08*	7h 13m	AN <sub>+</sub> bis M <sub>7</sub>		00:01	13:02	05:34	37m	06:12	38m	06:51	38m	07:29	8h 29m	15:59	38m	16:37	38m	17:16	37m	17:54	15h 31m	11h 40m				Mi, 6. Dez
Do, 7. Dez		17:54–02:16*	8h 21m	AN <sub>+</sub> bis M <sub>7</sub>		01:08	13:14	05:35	37m	06:13	38m	06:52	38m	07:30	8h 28m	15:58	38m	16:37	38m	17:16	37m	17:54	15h 32m	11h 41m				Do, 7. Dez
Fr, 8. Dez		17:54–03:26*	9h 32m	AN <sub>+</sub> bis M <sub>7</sub>		02:16	13:28	05:36	38m	06:14	38m	06:53	38m	07:31	8h 26m	15:58	38m	16:37	38m	17:16	37m	17:54	15h 34m	11h 42m				Fr, 8. Dez
Sa, 9. Dez		17:54–04:41*	10h 46m	AN <sub>+</sub> bis M <sub>7</sub>		03:26	13:44	05:37	38m	06:15	39m	06:54	38m	07														



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
2023/24	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023/24	
			$\Delta t$		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, 17. Dez		21:11–05:44*	8h 32m	M <sub>\</sub> bis AN <sub>\</sub>		11:27	21:11	05:43	38m	06:21	39m	07:00	39m	07:40	8h 19m	15:59	39m	16:38	39m	17:17	38m	17:55	15h 41m	11h 48m				So, 17. Dez
Mo, 18. Dez		22:34–05:44*	7h 09m	M <sub>\</sub> bis AN <sub>\</sub>		11:47	22:34	05:44	38m	06:22	39m	07:01	39m	07:40	8h 18m	15:59	39m	16:38	39m	17:18	38m	17:56	15h 41m	11h 48m				Mo, 18. Dez
Di, 19. Dez		23:55–05:45*	5h 49m	M <sub>\</sub> bis AN <sub>\</sub>	☾	12:04	23:55	05:44	38m	06:22	39m	07:02	39m	07:41	8h 18m	15:59	39m	16:39	39m	17:18	38m	17:56	15h 42m	11h 48m				Di, 19. Dez
Mi, 20. Dez		01:14*–05:45*	4h 30m	M <sub>\</sub> bis AN <sub>\</sub>		12:20	—:—	05:45	38m	06:23	39m	07:02	39m	07:41	8h 18m	16:00	39m	16:39	39m	17:18	38m	17:57	15h 42m	11h 48m				Mi, 20. Dez
Do, 21. Dez		02:34*–05:46*	3h 11m	M <sub>\</sub> bis AN <sub>\</sub>		12:36	01:14	05:45	38m	06:23	39m	07:03	39m	07:42	8h 18m	16:00	39m	16:39	39m	17:19	38m	17:57	15h 42m	11h 48m				Do, 21. Dez
Fr, 22. Dez		03:54*–05:46*	1h 52m	M <sub>\</sub> bis AN <sub>\</sub>		12:54	02:34	05:46	38m	06:24	39m	07:03	39m	07:43	8h 18m	16:01	39m	16:40	39m	17:19	38m	17:58	15h 42m	11h 48m				Fr, 22. Dez
Sa, 23. Dez		05:14*–05:47*	32m	M <sub>\</sub> bis AN <sub>\</sub>		13:15	03:54	05:46	38m	06:24	39m	07:04	39m	07:43	8h 18m	16:01	39m	16:41	39m	17:20	38m	17:58	15h 42m	11h 48m				Sa, 23. Dez
So, 24. Dez		—:—:—:—	–	Mond stört		13:41	05:14	05:47	38m	06:25	39m	07:04	39m	07:43	8h 18m	16:02	39m	16:41	39m	17:20	38m	17:59	15h 41m	11h 48m				So, 24. Dez
Mo, 25. Dez		—:—:—:—	–	Mond stört		14:17	06:31	05:47	38m	06:25	39m	07:05	39m	07:44	8h 18m	16:03	39m	16:42	39m	17:21	38m	17:59	15h 41m	11h 48m				Mo, 25. Dez
Di, 26. Dez		—:—:—:—	–	Mond stört		15:03	07:41	05:47	38m	06:26	39m	07:05	39m	07:44	8h 19m	16:03	39m	16:42	39m	17:22	38m	18:00	15h 41m	11h 47m				Di, 26. Dez
Mi, 27. Dez		—:—:—:—	–	Mond stört	☉	16:01	08:38	05:48	38m	06:26	39m	07:05	39m	07:44	8h 19m	16:04	39m	16:43	39m	17:22	38m	18:01	15h 40m	11h 47m				Mi, 27. Dez
Do, 28. Dez		—:—:~:~	–	Mond stört		17:08	09:23	05:48	38m	06:26	39m	07:06	39m	07:45	8h 20m	16:05	39m	16:44	39m	17:23	38m	18:01	15h 40m	11h 47m				Do, 28. Dez
Fr, 29. Dez		18:02–18:18	16m	AN <sub>+</sub> bis M <sub>7</sub>		18:18	09:55	05:48	38m	06:26	39m	07:06	39m	07:45	8h 20m	16:06	39m	16:45	39m	17:24	38m	18:02	15h 39m	11h 46m				Fr, 29. Dez
Sa, 30. Dez		18:03–19:29	1h 26m	AN <sub>+</sub> bis M <sub>7</sub>		19:29	10:19	05:49	38m	06:27	39m	07:06	39m	07:45	8h 21m	16:06	39m	16:45	39m	17:25	38m	18:03	15h 38m	11h 45m				Sa, 30. Dez
So, 31. Dez		18:04–20:39	2h 35m	AN <sub>+</sub> bis M <sub>7</sub>		20:39	10:38	05:49	38m	06:27	39m	07:06	38m	07:45	8h 22m	16:07	38m	16:46	39m	17:25	38m	18:04	15h 37m	11h 45m				So, 31. Dez
Mo, 1. Jan		18:04–21:46	3h 41m	AN <sub>+</sub> bis M <sub>7</sub>		21:46	10:54	05:49	38m	06:27	39m	07:06	38m	07:45	8h 23m	16:08	38m	16:47	39m	17:26	38m	18:04	15h 36m	11h 44m				Mo, 1. Jan
Di, 2. Jan		18:05–22:53	4h 47m	AN <sub>+</sub> bis M <sub>7</sub>		22:53	11:07	05:49	38m	06:27	39m	07:06	38m	07:45	8h 24m	16:09	38m	16:48	39m	17:27	38m	18:05	15h 35m	11h 43m				Di, 2. Jan
Mi, 3. Jan		18:06–23:59	5h 53m	AN <sub>+</sub> bis M <sub>7</sub>		23:59	11:20	05:49	38m	06:27	39m	07:06	38m	07:45	8h 25m	16:10	38m	16:49	39m	17:28	38m	18:06	15h 34m	11h 42m				Mi, 3. Jan
Do, 4. Jan		18:07–01:07*	7h 00m	AN <sub>+</sub> bis M <sub>7</sub>	☾	—:—	11:33	05:49	38m	06:27	38m	07:06	38m	07:45	8h 26m	16:11	38m	16:50	38m	17:29	38m	18:07	15h 33m	11h 42m				Do, 4. Jan
Fr, 5. Jan		18:08–02:19*	8h 10m	AN <sub>+</sub> bis M <sub>7</sub>		01:07	11:47	05:49	37m	06:27	38m	07:06	38m	07:45	8h 27m	16:12	38m	16:51	38m	17:30	37m	18:08	15h 32m	11h 41m				Fr, 5. Jan
Sa, 6. Jan		18:09–03:34*	9h 24m	AN <sub>+</sub> bis M <sub>7</sub>		02:19	12:04	05:49	37m	06:27	38m	07:06	38m	07:44	8h 29m	16:13	38m	16:52	38m	17:31	37m	18:09	15h 30m	11h 39m				Sa, 6. Jan
So, 7. Jan		18:10–04:52*	10h 41m	AN <sub>+</sub> bis M <sub>7</sub>		03:34	12:26	05:49	37m	06:27	38m	07:06	38m	07:44	8h 30m	16:15	38m	16:53	38m	17:32	37m	18:10	15h 29m	11h 38m				So, 7. Jan
Mo, 8. Jan		18:11–05:49*	11h 37m	AN <sub>+</sub> bis AN <sub>\</sub>		04:52	12:56	05:49	37m	06:27	38m	07:05	38m	07:44	8h 31m	16:16	38m	16:54	38m	17:33	37m	18:11	15h 27m	11h 37m				Mo, 8. Jan
Di, 9. Jan		18:12–05:48*	11h 36m	AN <sub>+</sub> bis AN <sub>\</sub>		06:09	13:39	05:49	37m	06:26	38m	07:05	38m	07:43	8h 33m	16:17	38m	16:55	38m	17:34	37m	18:12	15h 26m	11h 36m				Di, 9. Jan
Mi, 10. Jan		18:13–05:48*	11h 35m	AN <sub>+</sub> bis AN <sub>\</sub>		07:19	14:38	05:48	37m	06:26	38m	07:05	38m	07:43	8h 35m	16:18	38m	16:57	38m	17:35	37m	18:13	15h 24m	11h 35m				Mi, 10. Jan
Do, 11. Jan		18:14–05:48*	11h 33m	AN <sub>+</sub> bis AN <sub>\</sub>	☉	08:16	15:54	05:48	37m	06:26	38m	07:04	38m	07:43	8h 36m	16:20	38m	16:58	38m	17:36	37m	18:14	15h 22m	11h 33m				Do, 11. Jan
Fr, 12. Jan		18:15–05:47*	11h 32m	AN <sub>+</sub> bis AN <sub>\</sub>		08:58	17:20	05:48	37m	06:26	38m	07:04	38m	07:42	8h 38m	16:21	38m	16:59	38m	17:37	37m	18:15	15h 20m	11h 32m				Fr, 12. Jan
Sa, 13. Jan		18:50–05:47*	10h 57m	M <sub>\</sub> bis AN <sub>\</sub>		09:28	18:50	05:47	37m	06:25	38m	07:04	37m	07:42	8h 40m	16:22	37m	17:00	38m	17:39	37m	18:16	15h 18m	11h 30m				Sa, 13. Jan
So, 14. Jan		20:17–05:47*	9h 29m	M <sub>\</sub> bis AN <sub>\</sub>		09:51	20:17	05:47	37m	06:25	38m	07:03	37m	07:41	8h 42m	16:24	37m	17:01	38m	17:40	37m	18:17	15h 16m	11h 29m				So, 14. Jan
Mo, 15. Jan		21:41–05:46*	8h 04m	M <sub>\</sub> bis AN <sub>\</sub>		10:10	21:41	05:47	37m	06:24	38m	07:03	37m	07:40	8h 44m	16:25	37m	17:03	38m	17:41	37m	18:19	15h 14m	11h 27m				Mo, 15. Jan
Di, 16. Jan		23:03–05:46*	6h 42m	M <sub>\</sub> bis AN <sub>\</sub>		10:26	23:03	05:46	37m	06:24	38m	07:02	37m	07:40	8h 46m	16:26	37m	17:04	38m	17:42	37m	18:20	15h 12m	11h 25m				Di, 16. Jan
Mi, 17. Jan		00:24*–05:45*	5h 21m	M <sub>\</sub> bis AN <sub>\</sub>		10:42	—:—	05:46	37m	06:23	38m	07:01	37m	07:39	8h 48m	16:28	37m	17:05	38m	17:44	37m	18:21	15h 10m	11h 24m				Mi, 17. Jan
Do, 18. Jan		01:44*–05:45*	4h 00m	M <sub>\</sub> bis AN <sub>\</sub>	☾	10:59	00:24	05:45	37m	06:23	38m	07:01	37m	07:38	8h 51m	16:29	37m	17:07	38m	17:45	37m	18:22	15h 07m	11h 22m				Do, 18. Jan
Fr, 19. Jan		03:03*–05:44*	2h 40m	M <sub>\</sub> bis AN <sub>\</sub>		11:19	01:44	05:45	37m	06:22	37m	07:00	37m	07:37	8h 53m	16:31	37m	17:08	37m	17:46	37m	18:23	15h 05m	11h 20m				Fr, 19. Jan
Sa, 20. Jan		04:21*–05:43*	1h 22m	M <sub>\</sub> bis AN <sub>\</sub>		11:43	03:03	05:44	37m	06:21	37m	06:59	37m	07:36	8h 55m	16:32	37m	17:09	37m	17:47	37m	18:25	15h 03m	11h 18m				Sa, 20. Jan
So, 21. Jan		05:32*–05:43*	10m	M <sub>\</sub> bis AN <sub>\</sub>		12:15	04:21	05:43	37m	06:21	37m	06:58	37m	07:35	8h 58m	16:34	37m	17:11	37m	17:49	37m	18:26	15h 00m	11h 16m				So, 21. Jan
Mo, 22. Jan		—:~:~:~	–	Mond stört		12:57	05:32	05:43	37m	06:20	37m	06:58	36m	07:35	9h 00m	16:35	37m	17:12	37m	17:50	37m	18:27	14h 58m	11h 14m				Mo, 22. Jan
Di, 23. Jan		—:~:~:~	–	Mond stört		13:51	06:33	05:42	37m	06:19	37m	06:57	36m	07:34	9h 03m	16:37	36m	17:14	37m	17:51	37m	18:29	14h 55m	11h 12m				Di, 23. Jan
Mi, 24. Jan		—:~:~:~	–	Mond stört		14:55	07:20	05:41	37m	06:18	37m	06:56	36m	07:33	9h 05m	16:38	36m	17:15	37m	17:53	37m	18:30	14h 53m	11h 10m				Mi, 24. Jan
Do, 25. Jan		—:~:~:~	–	Mond stört	☉	16:04	07:56	05:40	37m	06:17	37m	06:55	36m	07:31	9h 08m	16:40	36m	17:17	37m	17:54	37m	18:31	14h 50m	11h 08m				Do, 25. Jan
Fr, 26. Jan		—:~:~:~	–	Mond stört		17:15	08:23	05:39	36m	06:16	37m	06:54	36m	07:30	9h 11m	16:41	36m	17:18	37m	17:55	37m	18:32	14h 47m	11h 06m				Fr, 26. Jan
Sa, 27. Jan		—:~:~:~	–	Mond stört		18:26	08:43	05:39	36m	06:15	37m	06:53	36m	07:29	9h 13m	16:43	36m	17:19	37m	17:57	36m	18:34	14h 45m	11h 03m				Sa, 27. Jan
So, 28. Jan		18:35–19:34	58m	AN <sub>+</sub> bis M <sub>7</sub>		19:34	08:59	05:38	36m	06:14	37m	06:52	36m	07:28	9h 16m	16:45												