

Mond- und Dämmerungstabelle 2024

für die visuelle Deep-Sky-Beobachtung

Greiz 50.6547° N 12.1997° E

Berechnung: pyEphem
Textsatz: L^AT_EX

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°) 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₊ (Einbruch der astronomischen Nacht = Ende der astr. Abenddämmerung), M_v (Monduntergang), AN₋ (Ende der astronomischen Nacht = Beginn der astr. Morgendämmerung), M₇

(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°).

Spalte 10 Dauer der astr. Morgendämmerung.

Spalte 11 Beginn der naut. Morgendämmerung (Sonnenhöhe = -12°).

Spalte 12 Dauer der naut. Morgendämmerung.

Spalte 13 Beginn der bürg. Morgendämmerung (Sonnenhöhe = -6°).

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°).

Spalte 20 Dauer der naut. Abenddämmerung.

Spalte 21 Ende der naut. Abenddämmerung (Sonnenhöhe = -12°).

Spalte 22 Dauer der astr. Abenddämmerung.

Spalte 23 Ende der astr. Abenddämmerung (Sonnenhöhe = -18°).

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°) und kein Mond stört.

Spalte 27 Dauer der in Spalte 26 angegebenen Zeitspanne.

Spalte 28 Ereignisse, die die nutzbare Zeitspanne begrenzen: ND₊ (Beginn der »naut. Dunkelheit« = Ende der naut. Abenddämmerung), M_v (Monduntergang), ND₋ (Ende der »naut. Dunkelheit« = Beginn der naut. Morgendämmerung), M₇ (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	
		Δt			Ph.	\nearrow	\searrow	Astr.	Δt	Naut.	Δt	Bürg.	Δt	\nearrow	Δt	\searrow	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Mo, 1. Jan		18:19–22:02	3h 42m	AN ₊ bis M ₇		22:02	11:15	06:10	39m	06:49	41m	07:31	41m	08:12	8h 04m	16:16	41m	16:58	41m	17:39	39m	18:19	15h 55m	11h 51m				Mo, 1. Jan
Di, 2. Jan		18:19–23:10	4h 50m	AN ₊ bis M ₇		23:10	11:26	06:10	39m	06:49	41m	07:31	41m	08:12	8h 05m	16:17	41m	16:59	41m	17:40	39m	18:19	15h 54m	11h 50m				Di, 2. Jan
Mi, 3. Jan		18:20–00:19*	5h 58m	AN ₊ bis M ₇		—:—	11:37	06:10	39m	06:49	40m	07:30	41m	08:12	8h 06m	16:18	41m	17:00	41m	17:41	39m	18:20	15h 52m	11h 49m				Mi, 3. Jan
Do, 4. Jan		18:21–01:29*	7h 07m	AN ₊ bis M ₇	☾	00:19	11:48	06:10	39m	06:49	40m	07:30	41m	08:11	8h 08m	16:20	41m	17:01	40m	17:42	39m	18:21	15h 51m	11h 48m				Do, 4. Jan
Fr, 5. Jan		18:22–02:43*	8h 20m	AN ₊ bis M ₇		01:29	12:00	06:10	39m	06:49	40m	07:30	40m	08:11	8h 09m	16:21	40m	17:02	40m	17:43	39m	18:22	15h 50m	11h 47m				Fr, 5. Jan
Sa, 6. Jan		18:23–04:01*	9h 37m	AN ₊ bis M ₇		02:43	12:15	06:10	39m	06:49	40m	07:30	40m	08:11	8h 11m	16:22	40m	17:03	40m	17:44	39m	18:23	15h 48m	11h 46m				Sa, 6. Jan
So, 7. Jan		18:24–05:22*	10h 57m	AN ₊ bis M ₇		04:01	12:35	06:09	39m	06:49	40m	07:30	40m	08:11	8h 12m	16:23	40m	17:04	40m	17:45	39m	18:24	15h 47m	11h 44m				So, 7. Jan
Mo, 8. Jan		18:25–06:09*	11h 43m	AN ₊ bis AN ₋		05:22	13:02	06:09	39m	06:49	40m	07:30	40m	08:10	8h 14m	16:24	40m	17:05	40m	17:46	39m	18:25	15h 45m	11h 43m				Mo, 8. Jan
Di, 9. Jan		18:26–06:09*	11h 42m	AN ₊ bis AN ₋		06:41	13:43	06:09	39m	06:49	40m	07:29	40m	08:10	8h 15m	16:26	40m	17:06	40m	17:47	39m	18:26	15h 43m	11h 42m				Di, 9. Jan
Mi, 10. Jan		18:28–06:08*	11h 40m	AN ₊ bis AN ₋		07:52	14:42	06:09	39m	06:48	40m	07:29	40m	08:09	8h 17m	16:27	40m	17:08	40m	17:48	39m	18:28	15h 41m	11h 40m				Mi, 10. Jan
Do, 11. Jan		18:29–06:08*	11h 39m	AN ₊ bis AN ₋	☾	08:47	15:59	06:08	39m	06:48	40m	07:28	40m	08:09	8h 19m	16:28	40m	17:09	40m	17:49	39m	18:29	15h 39m	11h 39m				Do, 11. Jan
Fr, 12. Jan		18:30–06:08*	11h 37m	AN ₊ bis AN ₋		09:26	17:28	06:08	39m	06:47	40m	07:28	40m	08:08	8h 21m	16:30	40m	17:10	40m	17:51	39m	18:30	15h 37m	11h 37m				Fr, 12. Jan
Sa, 13. Jan		19:01–06:07*	11h 06m	M _\ bis AN ₋		09:54	19:01	06:08	39m	06:47	40m	07:27	40m	08:07	8h 23m	16:31	40m	17:11	40m	17:52	39m	18:31	15h 35m	11h 36m				Sa, 13. Jan
So, 14. Jan		20:31–06:07*	9h 35m	M _\ bis AN ₋		10:14	20:31	06:07	39m	06:47	40m	07:27	40m	08:07	8h 25m	16:33	40m	17:13	40m	17:53	39m	18:32	15h 33m	11h 34m				So, 14. Jan
Mo, 15. Jan		21:58–06:06*	8h 07m	M _\ bis AN ₋		10:30	21:58	06:07	39m	06:46	40m	07:26	39m	08:06	8h 28m	16:34	39m	17:14	40m	17:54	39m	18:34	15h 31m	11h 32m				Mo, 15. Jan
Di, 16. Jan		23:23–06:06*	6h 42m	M _\ bis AN ₋		10:44	23:23	06:06	39m	06:45	40m	07:25	39m	08:05	8h 30m	16:36	39m	17:16	40m	17:56	39m	18:35	15h 28m	11h 30m				Di, 16. Jan
Mi, 17. Jan		00:46*–06:05*	5h 19m	M _\ bis AN ₋		10:57	—:—	06:06	39m	06:45	39m	07:25	39m	08:04	8h 32m	16:37	39m	17:17	39m	17:57	39m	18:36	15h 26m	11h 29m				Mi, 17. Jan
Do, 18. Jan		02:09*–06:04*	3h 55m	M _\ bis AN ₋	☾	11:12	00:46	06:05	39m	06:44	39m	07:24	39m	08:04	8h 35m	16:39	39m	17:18	39m	17:58	39m	18:37	15h 23m	11h 27m				Do, 18. Jan
Fr, 19. Jan		03:31*–06:04*	2h 32m	M _\ bis AN ₋		11:29	02:09	06:04	38m	06:43	39m	07:23	39m	08:03	8h 37m	16:40	39m	17:20	39m	18:00	39m	18:39	15h 21m	11h 25m				Fr, 19. Jan
Sa, 20. Jan		04:51*–06:03*	1h 12m	M _\ bis AN ₋		11:51	03:31	06:04	38m	06:43	39m	07:22	39m	08:02	8h 40m	16:42	39m	17:21	39m	18:01	38m	18:40	15h 18m	11h 23m				Sa, 20. Jan
So, 21. Jan		—:—:—:—	–	Mond stört		12:21	04:51	06:03	38m	06:42	39m	07:21	39m	08:01	8h 43m	16:44	39m	17:23	39m	18:02	38m	18:41	15h 15m	11h 20m				So, 21. Jan
Mo, 22. Jan		—:—:—:—	–	Mond stört		13:02	06:04	06:02	38m	06:41	39m	07:21	38m	08:00	8h 45m	16:45	39m	17:24	39m	18:04	38m	18:43	15h 13m	11h 18m				Mo, 22. Jan
Di, 23. Jan		—:—:—:—	–	Mond stört		13:55	07:05	06:01	38m	06:40	39m	07:20	38m	07:58	8h 48m	16:47	38m	17:26	39m	18:05	38m	18:44	15h 10m	11h 16m				Di, 23. Jan
Mi, 24. Jan		—:—:—:—	–	Mond stört		15:00	07:52	06:01	38m	06:39	39m	07:19	38m	07:57	8h 51m	16:49	38m	17:27	39m	18:07	38m	18:45	15h 07m	11h 14m				Mi, 24. Jan
Do, 25. Jan		—:~:~:~:~	–	Mond stört	☾	16:12	08:25	06:00	38m	06:38	39m	07:18	38m	07:56	8h 54m	16:50	38m	17:29	39m	18:08	38m	18:47	15h 04m	11h 11m				Do, 25. Jan
Fr, 26. Jan		—:~:~:~:~	–	Mond stört		17:25	08:49	05:59	38m	06:37	39m	07:16	38m	07:55	8h 57m	16:52	38m	17:30	39m	18:10	38m	18:48	15h 01m	11h 09m				Fr, 26. Jan
Sa, 27. Jan		—:~:~:~:~	–	Mond stört		18:38	09:07	05:58	38m	06:36	39m	07:15	38m	07:54	9h 00m	16:54	38m	17:32	39m	18:11	38m	18:50	14h 58m	11h 07m				Sa, 27. Jan
So, 28. Jan		18:51–19:48	57m	AN ₊ bis M ₇		19:48	09:21	05:57	38m	06:35	38m	07:14	38m	07:52	9h 03m	16:55	38m	17:34	38m	18:13	38m	18:51	14h 55m	11h 04m				So, 28. Jan
Mo, 29. Jan		18:52–20:57	2h 04m	AN ₊ bis M ₇		20:57	09:33	05:56	38m	06:34	38m	07:13	38m	07:51	9h 06m	16:57	38m	17:35	38m	18:14	38m	18:52	14h 52m	11h 01m				Mo, 29. Jan
Di, 30. Jan		18:54–22:06	3h 11m	AN ₊ bis M ₇		22:06	09:44	05:54	38m	06:33	38m	07:12	37m	07:50	9h 09m	16:59	37m	17:37	38m	18:16	38m	18:54	14h 49m	10h 59m				Di, 30. Jan
Mi, 31. Jan		18:55–23:15	4h 19m	AN ₊ bis M ₇		23:15	09:54	05:53	38m	06:32	38m	07:10	37m	07:48	9h 12m	17:01	37m	17:38	38m	18:17	38m	18:55	14h 46m	10h 56m				Mi, 31. Jan
Do, 1. Feb		18:57–00:26*	5h 28m	AN ₊ bis M ₇		—:—	10:06	05:52	38m	06:30	38m	07:09	37m	07:47	9h 15m	17:02	37m	17:40	38m	18:19	38m	18:57	14h 42m	10h 54m				Do, 1. Feb
Fr, 2. Feb		18:58–01:40*	6h 41m	AN ₊ bis M ₇		00:26	10:19	05:51	38m	06:29	38m	07:08	37m	07:45	9h 18m	17:04	37m	17:42	38m	18:20	38m	18:58	14h 39m	10h 51m				Fr, 2. Feb
Sa, 3. Feb		19:00–02:58*	7h 57m	AN ₊ bis M ₇	☾	01:40	10:36	05:50	38m	06:28	38m	07:06	37m	07:44	9h 22m	17:06	37m	17:43	38m	18:22	38m	19:00	14h 36m	10h 48m				Sa, 3. Feb
So, 4. Feb		19:01–04:16*	9h 15m	AN ₊ bis M ₇		02:58	10:58	05:48	38m	06:27	38m	07:05	37m	07:42	9h 25m	17:08	37m	17:45	38m	18:23	38m	19:01	14h 33m	10h 45m				So, 4. Feb
Mo, 5. Feb		19:03–05:31*	10h 27m	AN ₊ bis M ₇		04:16	11:31	05:47	38m	06:25	38m	07:03	37m	07:41	9h 28m	17:09	37m	17:46	38m	18:25	38m	19:03	14h 29m	10h 42m				Mo, 5. Feb
Di, 6. Feb		19:04–05:44*	10h 39m	AN ₊ bis AN ₋		05:31	12:19	05:46	38m	06:24	38m	07:02	37m	07:39	9h 32m	17:11	37m	17:48	38m	18:26	38m	19:04	14h 26m	10h 39m				Di, 6. Feb
Mi, 7. Feb		19:06–05:43*	10h 36m	AN ₊ bis AN ₋		06:33	13:27	05:44	38m	06:22	38m	07:01	36m	07:37	9h 35m	17:13	36m	17:50	38m	18:28	38m	19:06	14h 22m	10h 36m				Mi, 7. Feb
Do, 8. Feb		19:08–05:41*	10h 33m	AN ₊ bis AN ₋		07:19	14:51	05:43	38m	06:21	38m	06:59	36m	07:36	9h 38m	17:15	36m	17:51	38m	18:29	38m	19:08	14h 19m	10h 33m				Do, 8. Feb
Fr, 9. Feb		19:09–05:40*	10h 30m	AN ₊ bis AN ₋	☾	07:52	16:25	05:41	37m	06:19	37m	06:57	36m	07:34	9h 42m	17:16	36m	17:53	38m	18:31	38m	19:09	14h 15m	10h 30m				Fr, 9. Feb
Sa, 10. Feb		19:11–05:38*	10h 27m	AN ₊ bis AN ₋		08:16	17:59	05:40	37m	06:18	37m	06:56	36m	07:32	9h 45m	17:18	36m	17:55	37m	18:33	38m	19:11	14h 12m	10h 27m				Sa, 10. Feb
So, 11. Feb		19:31–05:37*	10h 05m	M _\ bis AN ₋		08:34	19:31	05:38	37m	06:16	37m	06:54	36m	07:31	9h 49m	17:20	36m	17:56	37m	18:34	37m	19:12	14h 08m	10h 24m				So, 11. Feb
Mo, 12. Feb		21:00–05:35*	8h 35m	M _\ bis AN ₋		08:49	21:00	05:37																				

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

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		
			Δt		Ph.	\nearrow	\searrow	Astr.	Δt	Naut.	Δt	Bürg.	Δt	\nearrow	Δt	\searrow	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Mi, 10. Apr	MESZ	22:50–04:20*	5h 29m	M _\ bis AN _\		06:58	22:50	04:23	45m	05:09	41m	05:50	36m	06:26	13h 32m	19:59	36m	20:35	41m	21:16	46m	22:03	10h 25m	6h 17m				Mi, 10. Apr
Do, 11. Apr	MESZ	00:19*–04:17*	3h 58m	M _\ bis AN _\		07:20	—:—	04:20	46m	05:06	41m	05:48	36m	06:24	13h 36m	20:00	36m	20:37	41m	21:18	46m	22:05	10h 21m	6h 11m				Do, 11. Apr
Fr, 12. Apr	MESZ	01:38*–04:14*	2h 35m	M _\ bis AN _\		07:50	00:19	04:17	46m	05:04	41m	05:45	36m	06:22	13h 40m	20:02	36m	20:39	41m	21:20	47m	22:08	10h 17m	6h 06m				Fr, 12. Apr
Sa, 13. Apr	MESZ	02:43*–04:11*	1h 28m	M _\ bis AN _\		08:32	01:38	04:14	47m	05:01	41m	05:43	36m	06:20	13h 43m	20:04	36m	20:40	42m	21:22	47m	22:10	10h 14m	6h 01m				Sa, 13. Apr
So, 14. Apr	MESZ	03:31*–04:08*	37m	M _\ bis AN _\		09:28	02:43	04:11	47m	04:59	41m	05:41	36m	06:18	13h 47m	20:05	37m	20:42	42m	21:24	48m	22:13	10h 10m	5h 55m				So, 14. Apr
Mo, 15. Apr	MESZ	04:04*–04:05*	1m	M _\ bis AN _\	☾	10:35	03:31	04:08	48m	04:56	42m	05:39	36m	06:16	13h 51m	20:07	37m	20:44	42m	21:26	48m	22:15	10h 06m	5h 50m				Mo, 15. Apr
Di, 16. Apr	MESZ	—:—:—:—	–	Mond stört		11:48	04:04	04:05	48m	04:54	42m	05:36	37m	06:13	13h 54m	20:08	37m	20:46	42m	21:28	49m	22:18	10h 03m	5h 44m				Di, 16. Apr
Mi, 17. Apr	MESZ	—:—:—:—	–	Mond stört		13:02	04:28	04:02	49m	04:51	42m	05:34	37m	06:11	13h 58m	20:10	37m	20:47	43m	21:31	49m	22:20	9h 59m	5h 39m				Mi, 17. Apr
Do, 18. Apr	MESZ	—:—:~:~:~	–	Mond stört		14:14	04:45	03:59	49m	04:49	43m	05:32	37m	06:09	14h 02m	20:12	37m	20:49	43m	21:33	50m	22:23	9h 55m	5h 33m				Do, 18. Apr
Fr, 19. Apr	MESZ	—:~:~:~:~	–	Mond stört		15:25	04:59	03:56	50m	04:46	43m	05:30	37m	06:07	14h 05m	20:13	37m	20:51	43m	21:35	50m	22:25	9h 52m	5h 27m				Fr, 19. Apr
Sa, 20. Apr	MESZ	—:~:~:~:~	–	Mond stört		16:34	05:10	03:53	50m	04:44	43m	05:28	37m	06:05	14h 09m	20:15	37m	20:53	43m	21:37	51m	22:28	9h 48m	5h 21m				Sa, 20. Apr
So, 21. Apr	MESZ	—:~:~:~:~	–	Mond stört		17:42	05:20	03:50	51m	04:41	43m	05:25	37m	06:03	14h 13m	20:16	38m	20:55	44m	21:39	52m	22:31	9h 44m	5h 16m				So, 21. Apr
Mo, 22. Apr	MESZ	—:~:~:~:~	–	Mond stört		18:52	05:31	03:47	52m	04:39	44m	05:23	38m	06:01	14h 16m	20:18	38m	20:56	44m	21:41	52m	22:34	9h 41m	5h 10m				Mo, 22. Apr
Di, 23. Apr	MESZ	—:~:~:~:~	–	Mond stört		20:04	05:42	03:44	52m	04:36	44m	05:21	38m	05:59	14h 20m	20:20	38m	20:58	44m	21:43	53m	22:36	9h 37m	5h 04m				Di, 23. Apr
Mi, 24. Apr	MESZ	—:~:~:~:~	–	Mond stört	☉	21:18	05:55	03:41	53m	04:34	44m	05:19	38m	05:57	14h 23m	20:21	38m	21:00	45m	21:45	54m	22:39	9h 34m	4h 58m				Mi, 24. Apr
Do, 25. Apr	MESZ	—:~:~:~:~	–	Mond stört		22:35	06:11	03:38	54m	04:32	45m	05:17	38m	05:55	14h 27m	20:23	38m	21:02	45m	21:47	54m	22:42	9h 30m	4h 52m				Do, 25. Apr
Fr, 26. Apr	MESZ	22:45–23:52	1h 06m	AN ₊ bis M ₇		23:52	06:33	03:34	54m	04:29	45m	05:15	38m	05:53	14h 30m	20:24	39m	21:03	45m	21:49	55m	22:45	9h 27m	4h 46m				Fr, 26. Apr
Sa, 27. Apr	MESZ	22:48–01:03*	2h 15m	AN ₊ bis M ₇		—:—	07:04	03:31	55m	04:27	45m	05:13	39m	05:52	14h 34m	20:26	39m	21:05	46m	21:52	56m	22:48	9h 23m	4h 39m				Sa, 27. Apr
So, 28. Apr	MESZ	22:51–02:03*	3h 11m	AN ₊ bis M ₇		01:03	07:49	03:28	56m	04:24	46m	05:10	39m	05:50	14h 37m	20:28	39m	21:07	46m	21:54	57m	22:51	9h 20m	4h 33m				So, 28. Apr
Mo, 29. Apr	MESZ	22:54–02:48*	3h 53m	AN ₊ bis M ₇		02:03	08:49	03:25	57m	04:22	46m	05:08	39m	05:48	14h 41m	20:29	39m	21:09	47m	21:56	58m	22:54	9h 16m	4h 27m				Mo, 29. Apr
Di, 30. Apr	MESZ	22:57–03:18*	4h 20m	AN ₊ bis AN _\		02:48	10:04	03:21	58m	04:19	47m	05:06	39m	05:46	14h 44m	20:31	39m	21:11	47m	21:58	59m	22:57	9h 13m	4h 20m				Di, 30. Apr
Mi, 1. Mai	MESZ	23:00–03:15*	4h 14m	AN ₊ bis AN _\	☾	03:20	11:29	03:18	59m	04:17	47m	05:04	39m	05:44	14h 48m	20:32	40m	21:12	47m	22:00	59m	23:00	9h 10m	4h 14m				Mi, 1. Mai
Do, 2. Mai	MESZ	23:03–03:11*	4h 07m	AN ₊ bis AN _\		03:43	12:56	03:15	59m	04:15	47m	05:02	40m	05:42	14h 51m	20:34	40m	21:14	48m	22:02	1h 00m	23:03	9h 06m	4h 07m				Do, 2. Mai
Fr, 3. Mai	MESZ	23:07–03:08*	4h 01m	AN ₊ bis AN _\		04:01	14:23	03:11	1h 00m	04:12	48m	05:00	40m	05:41	14h 54m	20:35	40m	21:16	48m	22:05	1h 02m	23:07	9h 03m	4h 01m				Fr, 3. Mai
Sa, 4. Mai	MESZ	23:10–03:04*	3h 54m	AN ₊ bis AN _\		04:16	15:50	03:08	1h 02m	04:10	48m	04:58	40m	05:39	14h 58m	20:37	40m	21:18	49m	22:07	1h 03m	23:10	9h 00m	3h 54m				Sa, 4. Mai
So, 5. Mai	MESZ	23:13–03:01*	3h 47m	AN ₊ bis AN _\		04:30	17:17	03:04	1h 03m	04:07	49m	04:56	40m	05:37	15h 01m	20:39	40m	21:20	49m	22:09	1h 04m	23:13	8h 56m	3h 47m				So, 5. Mai
Mo, 6. Mai	MESZ	23:17–02:57*	3h 40m	AN ₊ bis AN _\		04:44	18:45	03:01	1h 04m	04:05	49m	04:54	40m	05:35	15h 04m	20:40	41m	21:21	49m	22:11	1h 05m	23:17	8h 53m	3h 40m				Mo, 6. Mai
Di, 7. Mai	MESZ	23:20–02:53*	3h 33m	AN ₊ bis AN _\		05:00	20:16	02:57	1h 05m	04:03	49m	04:53	41m	05:34	15h 07m	20:42	41m	21:23	50m	22:14	1h 06m	23:20	8h 50m	3h 33m				Di, 7. Mai
Mi, 8. Mai	MESZ	23:24–02:50*	3h 25m	AN ₊ bis AN _\	☉	05:20	21:46	02:53	1h 06m	04:00	50m	04:51	41m	05:32	15h 11m	20:43	41m	21:25	50m	22:16	1h 08m	23:24	8h 47m	3h 25m				Mi, 8. Mai
Do, 9. Mai	MESZ	23:28–02:46*	3h 18m	AN ₊ bis AN _\		05:46	23:12	02:50	1h 08m	03:58	50m	04:49	41m	05:30	15h 14m	20:45	41m	21:27	51m	22:18	1h 09m	23:28	8h 44m	3h 18m				Do, 9. Mai
Fr, 10. Mai	MESZ	00:26*–02:42*	2h 16m	M _\ bis AN _\		06:23	—:—	02:46	1h 09m	03:56	51m	04:47	41m	05:29	15h 17m	20:46	42m	21:28	51m	22:20	1h 11m	23:31	8h 41m	3h 10m				Fr, 10. Mai
Sa, 11. Mai	MESZ	01:22*–02:38*	1h 15m	M _\ bis AN _\		07:13	00:26	02:42	1h 11m	03:53	51m	04:45	42m	05:27	15h 20m	20:48	42m	21:30	52m	22:22	1h 12m	23:35	8h 38m	3h 03m				Sa, 11. Mai
So, 12. Mai	MESZ	02:03*–02:34*	31m	M _\ bis AN _\		08:17	01:22	02:38	1h 12m	03:51	52m	04:43	42m	05:26	15h 23m	20:49	42m	21:32	52m	22:25	1h 14m	23:39	8h 35m	2h 55m				So, 12. Mai
Mo, 13. Mai	MESZ	—:~:~:~:~	–	Mond stört		09:30	02:03	02:34	1h 14m	03:49	52m	04:42	42m	05:24	15h 26m	20:51	42m	21:34	53m	22:27	1h 16m	23:43	8h 32m	2h 46m				Mo, 13. Mai
Di, 14. Mai	MESZ	—:~:~:~:~	–	Mond stört		10:45	02:31	02:30	1h 16m	03:47	53m	04:40	42m	05:23	15h 29m	20:52	43m	21:35	53m	22:29	1h 18m	23:48	8h 29m	2h 38m				Di, 14. Mai
Mi, 15. Mai	MESZ	—:~:~:~:~	–	Mond stört	☾	11:59	02:50	02:26	1h 18m	03:45	53m	04:38	43m	05:21	15h 32m	20:54	43m	21:37	54m	22:31	1h 20m	23:52	8h 26m	2h 29m				Mi, 15. Mai
Do, 16. Mai	MESZ	—:~:~:~:~	–	Mond stört		13:11	03:05	02:22	1h 20m	03:42	54m	04:37	43m	05:20	15h 35m	20:55	43m	21:39	54m	22:33	1h 22m	23:56	8h 23m	2h 20m				Do, 16. Mai
Fr, 17. Mai	MESZ	—:~:~:~:~	–	Mond stört		14:21	03:18	02:17	1h 22m	03:40	54m	04:35	43m	05:19	15h 37m	20:57	43m	21:40	55m	22:36	1h 25m	00:01*	8h 20m	2h 11m				Fr, 17. Mai
Sa, 18. Mai	MESZ	—:~:~:~:~	–	Mond stört		15:29	03:28	02:13	1h 25m	03:38	55m	04:34	43m	05:17	15h 40m	20:58	44m	21:42	55m	22:38	1h 28m	00:06*	8h 18m	2h 01m				Sa, 18. Mai
So, 19. Mai	MESZ	—:~:~:~:~	–	Mond stört		16:38	03:39	02:08	1h 28m	03:36	55m	04:32	44m	05:16	15h 43m	20:59	44m	21:44	56m	22:40	1h 31m	00:11*	8h 15m	1h 51m				So, 19. Mai
Mo, 20. Mai	MESZ	—:~:~:~:~	–	Mond stört		17:49	03:49	02:03	1h 31m	03:34	56m	04:30	44m	05:15	15h 45m	21:01	44m	21:45	57m	22:42	1h 35m	00:17*	8h 12m	1h 39m				Mo, 20. Mai
Di, 21. Mai	MESZ	—:~:~:~:~	–	Mond stört		19:03	04:02	01:57	1h 35m	03:32	57m	04:29	44m	05:14	15h 48m	21:02	44m	21:47	57m	22:44	1h 39m	00:23*	8h 10m	1h 27m				Di, 21. Mai
Mi, 22. Mai	MESZ	—:~:~:~:~	–	Mond stört		20:19	04:17	01:51	1h 39m	03:30	57m																	

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

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-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2024			
	zone		Δt		Ph.	\uparrow	\searrow	Astr.	Δt	Naut.	Δt	Bürg.	Δt	\uparrow	Δt	\searrow	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt				
Fr, 19. Jul	MESZ	—:—:—:—	—	Mond stört		20:30	02:17	01:46	1h 49m	03:36	58m	04:35	45m	05:20	15h 53m	21:13	44m	21:58	58m	22:56	1h 43m	00:40*	8h 08m	1h 14m						Fr, 19. Jul
Sa, 20. Jul	MESZ	—:—:—:—	—	Mond stört		21:18	03:18	01:55	1h 43m	03:38	58m	04:36	44m	05:21	15h 50m	21:12	44m	21:57	57m	22:54	1h 38m	00:33*	8h 10m	1h 28m						Sa, 20. Jul
So, 21. Jul	MESZ	—:—:~:~:~	—	Mond stört	○	21:53	04:36	02:02	1h 38m	03:40	57m	04:38	44m	05:23	15h 48m	21:11	44m	21:55	56m	22:52	1h 34m	00:27*	8h 13m	1h 40m						So, 21. Jul
Mo, 22. Jul	MESZ	—:~:~:~:~	—	Mond stört		22:17	06:04	02:08	1h 34m	03:42	56m	04:39	44m	05:24	15h 45m	21:10	44m	21:54	56m	22:50	1h 31m	00:22*	8h 15m	1h 51m						Mo, 22. Jul
Di, 23. Jul	MESZ	—:~:~:~:~	—	Mond stört		22:36	07:35	02:13	1h 31m	03:45	56m	04:41	44m	05:25	15h 43m	21:08	44m	21:52	55m	22:48	1h 28m	00:16*	8h 18m	2h 02m						Di, 23. Jul
Mi, 24. Jul	MESZ	—:~:~:~:~	—	Mond stört		22:51	09:04	02:19	1h 28m	03:47	55m	04:43	44m	05:27	15h 40m	21:07	43m	21:51	55m	22:46	1h 25m	00:11*	8h 20m	2h 11m						Mi, 24. Jul
Do, 25. Jul	MESZ	—:~:~:~:~	—	Mond stört		23:04	10:31	02:23	1h 25m	03:49	55m	04:44	43m	05:28	15h 37m	21:06	43m	21:49	54m	22:44	1h 22m	00:07*	8h 23m	2h 21m						Do, 25. Jul
Fr, 26. Jul	MESZ	—:~:~:~:~	—	Mond stört		23:18	11:57	02:28	1h 22m	03:51	54m	04:46	43m	05:29	15h 34m	21:04	43m	21:48	54m	22:42	1h 20m	00:02*	8h 26m	2h 30m						Fr, 26. Jul
Sa, 27. Jul	MESZ	—:~:~:~:~	—	Mond stört		23:33	13:22	02:33	1h 20m	03:53	54m	04:47	43m	05:31	15h 32m	21:03	43m	21:46	53m	22:40	1h 18m	23:58	8h 29m	2h 38m						Sa, 27. Jul
So, 28. Jul	MESZ	—:~:~:~:~	—	Mond stört	●	23:52	14:48	02:37	1h 18m	03:55	53m	04:49	43m	05:32	15h 29m	21:01	42m	21:44	53m	22:37	1h 16m	23:54	8h 32m	2h 47m						So, 28. Jul
Mo, 29. Jul	MESZ	23:50–00:16*	26m	AN ₊ bis M ₇		—:—	16:13	02:41	1h 16m	03:57	53m	04:51	42m	05:34	15h 26m	21:00	42m	21:42	52m	22:35	1h 14m	23:50	8h 35m	2h 55m						Mo, 29. Jul
Di, 30. Jul	MESZ	23:46–00:50*	1h 04m	AN ₊ bis M ₇		00:16	17:36	02:45	1h 14m	04:00	52m	04:52	42m	05:35	15h 23m	20:58	42m	21:41	52m	22:33	1h 12m	23:46	8h 38m	3h 03m						Di, 30. Jul
Mi, 31. Jul	MESZ	23:42–01:37*	1h 54m	AN ₊ bis M ₇		00:50	18:48	02:49	1h 12m	04:02	52m	04:54	42m	05:36	15h 20m	20:57	42m	21:39	51m	22:31	1h 11m	23:42	8h 41m	3h 10m						Mi, 31. Jul
Do, 1. Aug	MESZ	23:38–02:38*	2h 59m	AN ₊ bis M ₇		01:37	19:46	02:53	1h 11m	04:04	51m	04:56	42m	05:38	15h 17m	20:55	41m	21:37	51m	22:28	1h 09m	23:38	8h 44m	3h 18m						Do, 1. Aug
Fr, 2. Aug	MESZ	23:34–03:00*	3h 25m	AN ₊ bis AN ₋		02:38	20:29	02:56	1h 09m	04:06	51m	04:57	41m	05:39	15h 14m	20:54	41m	21:35	50m	22:26	1h 08m	23:34	8h 47m	3h 25m						Fr, 2. Aug
Sa, 3. Aug	MESZ	23:31–03:03*	3h 32m	AN ₊ bis AN ₋		03:49	20:59	03:00	1h 08m	04:08	50m	04:59	41m	05:41	15h 11m	20:52	41m	21:33	50m	22:24	1h 06m	23:31	8h 50m	3h 32m						Sa, 3. Aug
So, 4. Aug	MESZ	23:27–03:07*	3h 39m	AN ₊ bis AN ₋	●	05:06	21:20	03:03	1h 06m	04:10	50m	05:01	41m	05:42	15h 08m	20:50	41m	21:31	49m	22:21	1h 05m	23:27	8h 53m	3h 39m						So, 4. Aug
Mo, 5. Aug	MESZ	23:23–03:10*	3h 46m	AN ₊ bis AN ₋		06:22	21:36	03:07	1h 05m	04:13	49m	05:03	41m	05:44	15h 04m	20:49	40m	21:30	49m	22:19	1h 04m	23:23	8h 56m	3h 46m						Mo, 5. Aug
Di, 6. Aug	MESZ	23:20–03:14*	3h 53m	AN ₊ bis AN ₋		07:35	21:48	03:10	1h 04m	04:15	49m	05:04	40m	05:45	15h 01m	20:47	40m	21:28	49m	22:17	1h 03m	23:20	8h 59m	3h 53m						Di, 6. Aug
Mi, 7. Aug	MESZ	23:16–03:17*	4h 00m	AN ₊ bis AN ₋		08:46	21:59	03:14	1h 03m	04:17	49m	05:06	40m	05:47	14h 58m	20:45	40m	21:26	48m	22:14	1h 02m	23:16	9h 03m	4h 00m						Mi, 7. Aug
Do, 8. Aug	MESZ	23:13–03:20*	4h 07m	AN ₊ bis AN ₋		09:55	22:10	03:17	1h 02m	04:19	48m	05:08	40m	05:48	14h 55m	20:43	40m	21:24	48m	22:12	1h 01m	23:13	9h 06m	4h 07m						Do, 8. Aug
Fr, 9. Aug	MESZ	23:10–03:23*	4h 13m	AN ₊ bis AN ₋		11:03	22:20	03:20	1h 01m	04:21	48m	05:09	40m	05:50	14h 51m	20:42	40m	21:22	47m	22:09	1h 00m	23:10	9h 09m	4h 13m						Fr, 9. Aug
Sa, 10. Aug	MESZ	23:06–03:26*	4h 20m	AN ₊ bis AN ₋		12:13	22:32	03:23	1h 00m	04:23	47m	05:11	40m	05:51	14h 48m	20:40	39m	21:20	47m	22:07	59m	23:06	9h 12m	4h 20m						Sa, 10. Aug
So, 11. Aug	MESZ	23:03–03:29*	4h 26m	AN ₊ bis AN ₋		13:24	22:45	03:26	59m	04:25	47m	05:13	39m	05:53	14h 45m	20:38	39m	21:18	47m	22:05	58m	23:03	9h 16m	4h 26m						So, 11. Aug
Mo, 12. Aug	MESZ	23:04–03:32*	4h 28m	M ₇ bis AN ₋	◐	14:38	23:04	03:29	58m	04:27	47m	05:15	39m	05:54	14h 41m	20:36	39m	21:16	46m	22:02	57m	23:00	9h 19m	4h 32m						Mo, 12. Aug
Di, 13. Aug	MESZ	23:29–03:35*	4h 06m	M ₇ bis AN ₋		15:54	23:29	03:32	57m	04:30	46m	05:16	39m	05:56	14h 38m	20:34	39m	21:13	46m	22:00	56m	22:56	9h 23m	4h 38m						Di, 13. Aug
Mi, 14. Aug	MESZ	00:05*–03:38*	3h 33m	M ₇ bis AN ₋		17:08	—:—	03:35	56m	04:32	46m	05:18	39m	05:57	14h 34m	20:32	39m	21:11	45m	21:57	55m	22:53	9h 26m	4h 45m						Mi, 14. Aug
Do, 15. Aug	MESZ	00:57*–03:41*	2h 43m	M ₇ bis AN ₋		18:15	00:05	03:38	55m	04:34	45m	05:20	39m	05:59	14h 31m	20:30	38m	21:09	45m	21:55	54m	22:50	9h 30m	4h 51m						Do, 15. Aug
Fr, 16. Aug	MESZ	02:08*–03:44*	1h 36m	M ₇ bis AN ₋		19:10	00:57	03:41	54m	04:36	45m	05:21	38m	06:00	14h 28m	20:28	38m	21:07	45m	21:52	54m	22:47	9h 33m	4h 57m						Fr, 16. Aug
Sa, 17. Aug	MESZ	03:32*–03:46*	14m	M ₇ bis AN ₋		19:50	02:08	03:44	54m	04:38	45m	05:23	38m	06:02	14h 24m	20:26	38m	21:05	44m	21:50	53m	22:43	9h 36m	5h 03m						Sa, 17. Aug
So, 18. Aug	MESZ	—:~:~:~:~	—	Mond stört		20:18	03:32	03:46	53m	04:40	44m	05:25	38m	06:03	14h 21m	20:24	38m	21:03	44m	21:47	52m	22:40	9h 40m	5h 08m						So, 18. Aug
Mo, 19. Aug	MESZ	—:~:~:~:~	—	Mond stört	○	20:39	05:03	03:49	52m	04:42	44m	05:27	38m	06:05	14h 17m	20:22	38m	21:01	44m	21:45	52m	22:37	9h 44m	5h 14m						Mo, 19. Aug
Di, 20. Aug	MESZ	—:~:~:~:~	—	Mond stört		20:56	06:35	03:52	52m	04:44	44m	05:28	38m	06:06	14h 13m	20:20	37m	20:58	43m	21:42	51m	22:34	9h 47m	5h 20m						Di, 20. Aug
Mi, 21. Aug	MESZ	—:~:~:~:~	—	Mond stört		21:10	08:06	03:54	51m	04:46	44m	05:30	38m	06:08	14h 10m	20:18	37m	20:56	43m	21:40	50m	22:31	9h 51m	5h 26m						Mi, 21. Aug
Do, 22. Aug	MESZ	—:~:~:~:~	—	Mond stört		21:24	09:35	03:57	50m	04:48	43m	05:32	37m	06:10	14h 06m	20:16	37m	20:54	43m	21:37	50m	22:28	9h 54m	5h 31m						Do, 22. Aug
Fr, 23. Aug	MESZ	—:~:~:~:~	—	Mond stört		21:39	11:03	04:00	50m	04:50	43m	05:33	37m	06:11	14h 03m	20:14	37m	20:52	43m	21:35	49m	22:25	9h 58m	5h 37m						Fr, 23. Aug
Sa, 24. Aug	MESZ	—:~:~:~:~	—	Mond stört		21:56	12:32	04:02	49m	04:52	43m	05:35	37m	06:13	13h 59m	20:12	37m	20:50	42m	21:32	49m	22:22	10h 01m	5h 42m						Sa, 24. Aug
So, 25. Aug	MESZ	22:19–22:19	0m	AN ₊ bis M ₇		22:19	14:00	04:05	49m	04:54	42m	05:37	37m	06:14	13h 55m	20:10	37m	20:47	42m	21:30	48m	22:19	10h 05m	5h 48m						So, 25. Aug
Mo, 26. Aug	MESZ	22:16–22:50	33m	AN ₊ bis M ₇	◑	22:50	15:25	04:07	48m	04:56	42m	05:38	37m	06:16	13h 52m	20:08	37m	20:45	42m	21:27	48m	22:16	10h 09m	5h 53m						Mo, 26. Aug
Di, 27. Aug	MESZ	22:13–23:32	1h 19m	AN ₊ bis M ₇		23:32	16:42	04:10	48m	04:58	42m	05:40	37m	06:17	13h 48m	20:06	36m	20:43	42m	21:25	47m	22:13	10h 12m	5h 59m						Di, 27. Aug
Mi, 28. Aug	MESZ	22:10–00:29*	2h 19m	AN ₊ bis M ₇		—:—	17:44	04:12	47m	05:00	42m	05:42	36m	06:19	13h 45m	20:04	36m	20:41	41m	21:22	47m	22:10	10h 16m	6h 04m						Mi, 28. Aug

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

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

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