

Mond- und Dämmerungstabelle 2024

für die visuelle Deep-Sky-Beobachtung

Wunsiedel 50.0386° N 12.0047° 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 angegeben Kalendertag. Liegt ein Ereignis bereits nach Mitternacht, also schon am Folgetag, ist die Zeitangabe mit einem * gekennzeichnet, z.B.: 00:20*.

Spalte 1 Kalendertag.

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

Spalte 3 Die für Deep-Sky-Beobachtungen nutzbare Zeitspanne: Es ist astronomisch dunkel (Sonne steht tiefer als -18°) 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), M_l

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

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

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

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

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

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

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

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		16:47	09:43	06:03	39m	06:43	40m	07:23	40m	08:04	8h 06m	16:10	40m	16:51	40m	17:32	39m	18:11	15h 54m	11h 52m				Mo, 16. Dez
Di, 17. Dez		—:—:—:—	—	Mond stört		18:04	10:28	06:04	39m	06:43	40m	07:24	40m	08:05	8h 05m	16:11	40m	16:51	40m	17:32	39m	18:11	15h 54m	11h 53m				Di, 17. Dez
Mi, 18. Dez		18:12–19:24	1h 12m	AN ₊ bis M ₇		19:24	10:59	06:05	39m	06:44	40m	07:25	40m	08:06	8h 05m	16:11	40m	16:52	40m	17:32	39m	18:12	15h 55m	11h 53m				Mi, 18. Dez
Do, 19. Dez		18:12–20:42	2h 29m	AN ₊ bis M ₇		20:42	11:21	06:05	39m	06:45	40m	07:25	40m	08:06	8h 05m	16:11	40m	16:52	40m	17:33	39m	18:12	15h 55m	11h 53m				Do, 19. Dez
Fr, 20. Dez		18:13–21:56	3h 43m	AN ₊ bis M ₇		21:56	11:37	06:06	39m	06:45	40m	07:26	40m	08:07	8h 04m	16:12	40m	16:53	40m	17:33	39m	18:13	15h 55m	11h 53m				Fr, 20. Dez
Sa, 21. Dez		18:13–23:07	4h 53m	AN ₊ bis M ₇		23:07	11:50	06:06	39m	06:46	40m	07:26	40m	08:07	8h 04m	16:12	40m	16:53	40m	17:34	39m	18:13	15h 55m	11h 53m				Sa, 21. Dez
So, 22. Dez		18:14–00:15*	6h 01m	AN ₊ bis M ₇	☾	—:—	12:01	06:07	39m	06:46	40m	07:27	40m	08:08	8h 04m	16:13	40m	16:54	40m	17:34	39m	18:14	15h 55m	11h 53m				So, 22. Dez
Mo, 23. Dez		18:14–01:23*	7h 08m	AN ₊ bis M ₇		00:15	12:12	06:07	39m	06:47	40m	07:27	40m	08:08	8h 05m	16:13	40m	16:54	40m	17:35	39m	18:14	15h 55m	11h 53m				Mo, 23. Dez
Di, 24. Dez		18:15–02:32*	8h 17m	AN ₊ bis M ₇		01:23	12:24	06:08	39m	06:47	40m	07:28	40m	08:09	8h 05m	16:14	40m	16:55	40m	17:35	39m	18:15	15h 54m	11h 53m				Di, 24. Dez
Mi, 25. Dez		18:16–03:43*	9h 27m	AN ₊ bis M ₇		02:32	12:37	06:08	39m	06:47	40m	07:28	40m	08:09	8h 05m	16:15	40m	16:55	40m	17:36	39m	18:16	15h 54m	11h 52m				Mi, 25. Dez
Do, 26. Dez		18:16–04:56*	10h 39m	AN ₊ bis M ₇		03:43	12:52	06:08	39m	06:48	40m	07:28	40m	08:09	8h 06m	16:15	40m	16:56	40m	17:37	39m	18:16	15h 54m	11h 52m				Do, 26. Dez
Fr, 27. Dez		18:17–06:09*	11h 51m	AN ₊ bis AN ₋		04:56	13:13	06:09	39m	06:48	40m	07:29	40m	08:09	8h 06m	16:16	40m	16:57	40m	17:38	39m	18:17	15h 53m	11h 51m				Fr, 27. Dez
Sa, 28. Dez		18:18–06:09*	11h 51m	AN ₊ bis AN ₋		06:10	13:41	06:09	39m	06:48	40m	07:29	40m	08:10	8h 07m	16:17	40m	16:58	40m	17:38	39m	18:18	15h 52m	11h 51m				Sa, 28. Dez
So, 29. Dez		18:18–06:09*	11h 50m	AN ₊ bis AN ₋		07:21	14:21	06:09	39m	06:48	40m	07:29	40m	08:10	8h 08m	16:18	40m	16:59	40m	17:39	39m	18:18	15h 51m	11h 50m				So, 29. Dez
Mo, 30. Dez		18:19–06:09*	11h 50m	AN ₊ bis AN ₋	☉	08:23	15:17	06:09	39m	06:49	40m	07:29	40m	08:10	8h 09m	16:19	40m	16:59	40m	17:40	39m	18:19	15h 50m	11h 50m				Mo, 30. Dez
Di, 31. Dez		18:20–06:10*	11h 49m	AN ₊ bis AN ₋		09:12	16:26	06:09	39m	06:49	40m	07:29	40m	08:10	8h 10m	16:20	40m	17:00	40m	17:41	39m	18:20	15h 49m	11h 49m				Di, 31. Dez
Mi, 1. Jan		18:21–06:10*	11h 48m	AN ₊ bis AN ₋		09:48	17:46	06:10	39m	06:49	40m	07:29	40m	08:10	8h 11m	16:21	40m	17:01	40m	17:42	39m	18:21	15h 48m	11h 48m				Mi, 1. Jan
Do, 2. Jan		19:10–06:10*	10h 59m	M _\ bis AN ₋		10:15	19:10	06:10	39m	06:49	40m	07:29	40m	08:10	8h 12m	16:22	40m	17:02	40m	17:43	39m	18:22	15h 47m	11h 47m				Do, 2. Jan
Fr, 3. Jan		20:34–06:10*	9h 35m	M _\ bis AN ₋		10:35	20:34	06:10	39m	06:49	40m	07:29	40m	08:09	8h 13m	16:23	40m	17:03	40m	17:44	39m	18:23	15h 46m	11h 46m				Fr, 3. Jan
Sa, 4. Jan		21:57–06:09*	8h 12m	M _\ bis AN ₋		10:51	21:57	06:10	39m	06:49	40m	07:29	40m	08:09	8h 14m	16:24	40m	17:04	40m	17:45	39m	18:24	15h 44m	11h 45m				Sa, 4. Jan
So, 5. Jan		23:19–06:09*	6h 50m	M _\ bis AN ₋		11:05	23:19	06:09	39m	06:49	40m	07:29	40m	08:09	8h 16m	16:25	40m	17:05	40m	17:46	39m	18:25	15h 43m	11h 44m				So, 5. Jan
Mo, 6. Jan		00:42*–06:09*	5h 27m	M _\ bis AN ₋		11:18	—:—	06:09	39m	06:48	40m	07:29	40m	08:09	8h 17m	16:26	40m	17:07	40m	17:47	39m	18:26	15h 41m	11h 43m				Mo, 6. Jan
Di, 7. Jan		02:06*–06:09*	4h 02m	M _\ bis AN ₋	☾	11:33	00:42	06:09	39m	06:48	40m	07:28	40m	08:08	8h 19m	16:28	40m	17:08	40m	17:48	39m	18:27	15h 40m	11h 42m				Di, 7. Jan
Mi, 8. Jan		03:33*–06:09*	2h 36m	M _\ bis AN ₋		11:51	02:06	06:09	38m	06:48	40m	07:28	39m	08:08	8h 20m	16:29	39m	17:09	40m	17:49	39m	18:28	15h 38m	11h 40m				Mi, 8. Jan
Do, 9. Jan		05:00*–06:08*	1h 08m	M _\ bis AN ₋		12:13	03:33	06:09	38m	06:48	39m	07:28	39m	08:07	8h 22m	16:30	39m	17:10	39m	17:50	38m	18:29	15h 36m	11h 39m				Do, 9. Jan
Fr, 10. Jan		—:—:—:—	—	Mond stört		12:44	05:00	06:08	38m	06:47	39m	07:27	39m	08:07	8h 24m	16:32	39m	17:11	39m	17:51	38m	18:30	15h 34m	11h 38m				Fr, 10. Jan
Sa, 11. Jan		—:—:—:—	—	Mond stört		13:27	06:21	06:08	38m	06:47	39m	07:27	39m	08:06	8h 26m	16:33	39m	17:13	39m	17:52	38m	18:31	15h 32m	11h 36m				Sa, 11. Jan
So, 12. Jan		—:~:~:~:~	—	Mond stört		14:26	07:29	06:08	38m	06:47	39m	07:26	39m	08:06	8h 28m	16:34	39m	17:14	39m	17:54	38m	18:32	15h 30m	11h 34m				So, 12. Jan
Mo, 13. Jan		—:~:~:~:~	—	Mond stört	☉	15:39	08:21	06:07	38m	06:46	39m	07:26	39m	08:05	8h 30m	16:36	39m	17:15	39m	17:55	38m	18:34	15h 28m	11h 33m				Mo, 13. Jan
Di, 14. Jan		—:~:~:~:~	—	Mond stört		16:59	08:57	06:07	38m	06:46	39m	07:25	39m	08:04	8h 32m	16:37	39m	17:16	39m	17:56	38m	18:35	15h 26m	11h 31m				Di, 14. Jan
Mi, 15. Jan		—:~:~:~:~	—	Mond stört		18:19	09:22	06:06	38m	06:45	39m	07:25	39m	08:04	8h 34m	16:39	39m	17:18	39m	17:57	38m	18:36	15h 24m	11h 29m				Mi, 15. Jan
Do, 16. Jan		18:37–19:36	58m	AN ₊ bis M ₇		19:36	09:41	06:06	38m	06:44	39m	07:24	39m	08:03	8h 37m	16:40	39m	17:19	39m	17:59	38m	18:37	15h 21m	11h 28m				Do, 16. Jan
Fr, 17. Jan		18:38–20:49	2h 10m	AN ₊ bis M ₇		20:49	09:55	06:05	38m	06:44	39m	07:23	38m	08:02	8h 39m	16:42	38m	17:21	39m	18:00	38m	18:38	15h 19m	11h 26m				Fr, 17. Jan
Sa, 18. Jan		18:40–21:59	3h 19m	AN ₊ bis M ₇		21:59	10:07	06:05	38m	06:43	39m	07:22	38m	08:01	8h 42m	16:43	38m	17:22	39m	18:01	38m	18:40	15h 17m	11h 24m				Sa, 18. Jan
So, 19. Jan		18:41–23:07	4h 26m	AN ₊ bis M ₇		23:07	10:18	06:04	38m	06:42	39m	07:22	38m	08:00	8h 44m	16:45	38m	17:23	39m	18:03	38m	18:41	15h 14m	11h 22m				So, 19. Jan
Mo, 20. Jan		18:42–00:16*	5h 33m	AN ₊ bis M ₇		—:—	10:29	06:03	38m	06:42	39m	07:21	38m	07:59	8h 47m	16:46	38m	17:25	39m	18:04	38m	18:42	15h 11m	11h 20m				Mo, 20. Jan
Di, 21. Jan		18:44–01:26*	6h 42m	AN ₊ bis M ₇	☾	00:16	10:41	06:03	38m	06:41	38m	07:20	38m	07:58	8h 49m	16:48	38m	17:26	39m	18:05	38m	18:44	15h 09m	11h 18m				Di, 21. Jan
Mi, 22. Jan		18:45–02:38*	7h 52m	AN ₊ bis M ₇		01:26	10:56	06:02	38m	06:40	38m	07:19	38m	07:57	8h 52m	16:49	38m	17:28	38m	18:07	38m	18:45	15h 06m	11h 15m				Mi, 22. Jan
Do, 23. Jan		18:46–03:51*	9h 04m	AN ₊ bis M ₇		02:38	11:14	06:01	38m	06:39	38m	07:18	38m	07:56	8h 55m	16:51	38m	17:29	38m	18:08	38m	18:46	15h 03m	11h 13m				Do, 23. Jan
Fr, 24. Jan		18:48–05:03*	10h 15m	AN ₊ bis M ₇		03:51	11:38	06:00	38m	06:38	38m	07:17	38m	07:55	8h 57m	16:53	38m	17:31	38m	18:10	38m	18:48	15h 01m	11h 11m				Fr, 24. Jan
Sa, 25. Jan		18:49–05:58*	11h 09m	AN ₊ bis AN ₋		05:03	12:13	05:59	38m	06:37	38m	07:16	37m	07:54	9h 00m	16:54	37m	17:32	38m	18:11	38m	18:49	14h 58m	11h 09m				Sa, 25. Jan
So, 26. Jan		18:51–05:57*	11h 06m	AN ₊ bis AN ₋		06:09	13:01	05:58	38m	06:36	38m	07:15	37m	07:53	9h 03m	16:56	37m	17:34	38m	18:12	38m	18:51	14h 55m	11h 06m				So, 26. Jan
Mo, 27. Jan		18:52–05:56*	11h 04m	AN ₊ bis AN ₋		07:04	14:05	0																				