

Mond- und Dämmerungstabelle 2024

für die visuelle Deep-Sky-Beobachtung

Solingen 51.1714° N 7.0833° 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		18:38 – 22:22	3h 43m	AN ₊ bis M ₇		22:22	11:37	06:31	40m	07:11	41m	07:53	41m	08:35	7h 59m	16:34	41m	17:16	41m	17:58	40m	18:38	16h 00m	11h 52m					Mo, 1. Jan
Di, 2. Jan		18:39 – 23:31	4h 52m	AN ₊ bis M ₇		23:31	11:48	06:31	40m	07:11	41m	07:53	41m	08:35	8h 00m	16:35	41m	17:17	41m	17:59	40m	18:39	15h 59m	11h 51m					Di, 2. Jan
Mi, 3. Jan		18:40 – 00:41*	6h 00m	AN ₊ bis M ₇		—:—	11:58	06:31	40m	07:11	41m	07:53	41m	08:35	8h 01m	16:37	41m	17:18	41m	18:00	40m	18:40	15h 57m	11h 50m					Mi, 3. Jan
Do, 4. Jan		18:41 – 01:52*	7h 10m	AN ₊ bis M ₇	☾	00:41	12:08	06:31	40m	07:11	41m	07:53	41m	08:34	8h 03m	16:38	41m	17:19	41m	18:01	40m	18:41	15h 56m	11h 49m					Do, 4. Jan
Fr, 5. Jan		18:42 – 03:06*	8h 24m	AN ₊ bis M ₇		01:52	12:20	06:31	40m	07:11	41m	07:52	41m	08:34	8h 04m	16:39	41m	17:20	41m	18:02	40m	18:42	15h 54m	11h 48m					Fr, 5. Jan
Sa, 6. Jan		18:43 – 04:25*	9h 41m	AN ₊ bis M ₇		03:06	12:34	06:31	40m	07:11	41m	07:52	41m	08:34	8h 06m	16:40	41m	17:22	41m	18:03	40m	18:43	15h 53m	11h 47m					Sa, 6. Jan
So, 7. Jan		18:44 – 05:46*	11h 02m	AN ₊ bis M ₇		04:25	12:53	06:31	40m	07:11	41m	07:52	41m	08:33	8h 07m	16:41	41m	17:23	41m	18:04	40m	18:44	15h 51m	11h 46m					So, 7. Jan
Mo, 8. Jan		18:45 – 06:30*	11h 45m	AN ₊ bis AN ₋		05:46	13:20	06:30	40m	07:10	41m	07:52	41m	08:33	8h 09m	16:43	41m	17:24	41m	18:05	40m	18:45	15h 49m	11h 45m					Mo, 8. Jan
Di, 9. Jan		18:46 – 06:30*	11h 43m	AN ₊ bis AN ₋		07:06	14:00	06:30	39m	07:10	41m	07:51	41m	08:33	8h 11m	16:44	41m	17:25	41m	18:06	39m	18:46	15h 48m	11h 43m					Di, 9. Jan
Mi, 10. Jan		18:47 – 06:30*	11h 42m	AN ₊ bis AN ₋		08:17	14:59	06:30	39m	07:10	41m	07:51	41m	08:32	8h 13m	16:45	41m	17:26	41m	18:07	39m	18:47	15h 46m	11h 42m					Mi, 10. Jan
Do, 11. Jan		18:48 – 06:29*	11h 40m	AN ₊ bis AN ₋	☾	09:12	16:17	06:30	39m	07:10	40m	07:50	40m	08:31	8h 15m	16:47	40m	17:28	40m	18:09	39m	18:48	15h 44m	11h 40m					Do, 11. Jan
Fr, 12. Jan		18:50 – 06:29*	11h 39m	AN ₊ bis AN ₋		09:50	17:47	06:29	39m	07:09	40m	07:50	40m	08:31	8h 17m	16:48	40m	17:29	40m	18:10	39m	18:50	15h 42m	11h 39m					Fr, 12. Jan
Sa, 13. Jan		19:21 – 06:28*	11h 07m	M _\ bis AN ₋		10:17	19:21	06:29	39m	07:09	40m	07:49	40m	08:30	8h 19m	16:50	40m	17:30	40m	18:11	39m	18:51	15h 39m	11h 37m					Sa, 13. Jan
So, 14. Jan		20:52 – 06:28*	9h 35m	M _\ bis AN ₋		10:36	20:52	06:28	39m	07:08	40m	07:49	40m	08:29	8h 21m	16:51	40m	17:32	40m	18:12	39m	18:52	15h 37m	11h 35m					So, 14. Jan
Mo, 15. Jan		22:20 – 06:27*	8h 07m	M _\ bis AN ₋		10:51	22:20	06:28	39m	07:08	40m	07:48	40m	08:29	8h 23m	16:53	40m	17:33	40m	18:14	39m	18:53	15h 35m	11h 34m					Mo, 15. Jan
Di, 16. Jan		23:45 – 06:27*	6h 41m	M _\ bis AN ₋		11:05	23:45	06:27	39m	07:07	40m	07:48	40m	08:28	8h 26m	16:54	40m	17:34	40m	18:15	39m	18:55	15h 32m	11h 32m					Di, 16. Jan
Mi, 17. Jan		01:08* – 06:26*	5h 17m	M _\ bis AN ₋		11:17	—:—	06:27	39m	07:06	40m	07:47	40m	08:27	8h 28m	16:56	40m	17:36	40m	18:16	39m	18:56	15h 30m	11h 30m					Mi, 17. Jan
Do, 18. Jan		02:32* – 06:25*	3h 53m	M _\ bis AN ₋	☾	11:32	01:08	06:26	39m	07:06	40m	07:46	40m	08:26	8h 31m	16:57	40m	17:37	40m	18:18	39m	18:57	15h 27m	11h 28m					Do, 18. Jan
Fr, 19. Jan		03:55* – 06:25*	2h 29m	M _\ bis AN ₋		11:48	02:32	06:25	39m	07:05	40m	07:45	39m	08:25	8h 33m	16:59	39m	17:39	40m	18:19	39m	18:59	15h 25m	11h 26m					Fr, 19. Jan
Sa, 20. Jan		05:16* – 06:24*	1h 08m	M _\ bis AN ₋		12:10	03:55	06:25	39m	07:04	40m	07:44	39m	08:24	8h 36m	17:00	39m	17:40	40m	18:20	39m	19:00	15h 22m	11h 24m					Sa, 20. Jan
So, 21. Jan		—:— —:—	—	Mond stört		12:39	05:16	06:24	39m	07:03	40m	07:43	39m	08:23	8h 39m	17:02	39m	17:42	40m	18:22	39m	19:01	15h 19m	11h 21m					So, 21. Jan
Mo, 22. Jan		—:— —:—	—	Mond stört		13:19	06:29	06:23	39m	07:02	39m	07:42	39m	08:22	8h 41m	17:04	39m	17:43	40m	18:23	39m	19:03	15h 17m	11h 19m					Mo, 22. Jan
Di, 23. Jan		—:— —:—	—	Mond stört		14:12	07:30	06:22	39m	07:02	39m	07:41	39m	08:21	8h 44m	17:05	39m	17:45	39m	18:25	39m	19:04	15h 14m	11h 17m					Di, 23. Jan
Mi, 24. Jan		—:~ —:~	—	Mond stört		15:18	08:16	06:21	39m	07:01	39m	07:40	39m	08:20	8h 47m	17:07	39m	17:46	39m	18:26	39m	19:05	15h 11m	11h 15m					Mi, 24. Jan
Do, 25. Jan		—:~ —:~	—	Mond stört	☾	16:30	08:49	06:21	39m	07:00	39m	07:39	39m	08:18	8h 50m	17:09	39m	17:48	39m	18:28	39m	19:07	15h 08m	11h 12m					Do, 25. Jan
Fr, 26. Jan		—:~ —:~	—	Mond stört		17:45	09:13	06:20	39m	06:59	39m	07:38	38m	08:17	8h 53m	17:11	38m	17:50	39m	18:29	39m	19:08	15h 05m	11h 10m					Fr, 26. Jan
Sa, 27. Jan		—:~ —:~	—	Mond stört		18:58	09:30	06:19	38m	06:58	39m	07:37	38m	08:16	8h 56m	17:12	38m	17:51	39m	18:31	39m	19:10	15h 02m	11h 07m					Sa, 27. Jan
So, 28. Jan		19:11 – 20:09	57m	AN ₊ bis M ₇		20:09	09:43	06:17	38m	06:56	39m	07:36	38m	08:15	8h 59m	17:14	38m	17:53	39m	18:32	38m	19:11	14h 59m	11h 05m					So, 28. Jan
Mo, 29. Jan		19:13 – 21:18	2h 05m	AN ₊ bis M ₇		21:18	09:55	06:16	38m	06:55	39m	07:35	38m	08:13	9h 02m	17:16	38m	17:54	39m	18:34	38m	19:13	14h 55m	11h 02m					Mo, 29. Jan
Di, 30. Jan		19:14 – 22:27	3h 13m	AN ₊ bis M ₇		22:27	10:05	06:15	38m	06:54	39m	07:33	38m	08:12	9h 05m	17:18	38m	17:56	39m	18:35	38m	19:14	14h 52m	11h 00m					Di, 30. Jan
Mi, 31. Jan		19:16 – 23:37	4h 21m	AN ₊ bis M ₇		23:37	10:15	06:14	38m	06:53	39m	07:32	38m	08:10	9h 09m	17:19	38m	17:58	39m	18:37	38m	19:16	14h 49m	10h 57m					Mi, 31. Jan
Do, 1. Feb		19:17 – 00:48*	5h 31m	AN ₊ bis M ₇		—:—	10:25	06:13	38m	06:52	39m	07:31	38m	08:09	9h 12m	17:21	38m	17:59	39m	18:38	38m	19:17	14h 46m	10h 54m					Do, 1. Feb
Fr, 2. Feb		19:19 – 02:04*	6h 44m	AN ₊ bis M ₇		00:48	10:38	06:12	38m	06:50	38m	07:29	37m	08:07	9h 15m	17:23	38m	18:01	39m	18:40	38m	19:19	14h 42m	10h 51m					Fr, 2. Feb
Sa, 3. Feb		19:20 – 03:22*	8h 01m	AN ₊ bis M ₇	☾	02:04	10:54	06:10	38m	06:49	38m	07:28	37m	08:06	9h 18m	17:25	37m	18:03	38m	18:41	38m	19:20	14h 39m	10h 48m					Sa, 3. Feb
So, 4. Feb		19:22 – 04:41*	9h 19m	AN ₊ bis M ₇		03:22	11:16	06:09	38m	06:48	38m	07:26	37m	08:04	9h 22m	17:26	37m	18:04	38m	18:43	38m	19:22	14h 36m	10h 46m					So, 4. Feb
Mo, 5. Feb		19:23 – 05:56*	10h 32m	AN ₊ bis M ₇		04:41	11:49	06:08	38m	06:46	38m	07:25	37m	08:03	9h 25m	17:28	37m	18:06	38m	18:45	38m	19:23	14h 32m	10h 43m					Mo, 5. Feb
Di, 6. Feb		19:25 – 06:05*	10h 40m	AN ₊ bis AN ₋		05:56	12:37	06:06	38m	06:45	38m	07:23	37m	08:01	9h 29m	17:30	37m	18:08	38m	18:46	38m	19:25	14h 29m	10h 40m					Di, 6. Feb
Mi, 7. Feb		19:26 – 06:03*	10h 37m	AN ₊ bis AN ₋		06:58	13:45	06:05	38m	06:43	38m	07:22	37m	07:59	9h 32m	17:32	37m	18:09	38m	18:48	38m	19:26	14h 25m	10h 37m					Mi, 7. Feb
Do, 8. Feb		19:28 – 06:02*	10h 33m	AN ₊ bis AN ₋		07:44	15:10	06:03	38m	06:42	38m	07:20	37m	07:58	9h 36m	17:34	37m	18:11	38m	18:49	38m	19:28	14h 22m	10h 33m					Do, 8. Feb
Fr, 9. Feb		19:30 – 06:00*	10h 30m	AN ₊ bis AN ₋	☾	08:15	16:44	06:02	38m	06:40	38m	07:19	37m	07:56	9h 39m	17:35	37m	18:13	38m	18:51	38m	19:30	14h 18m	10h 30m					Fr, 9. Feb
Sa, 10. Feb		19:31 – 05:59*	10h 27m	AN ₊ bis AN ₋		08:38	18:19	06:00	38m	06:39	38m	07:17	36m	07:54	9h 43m	17:37	37m	18:14	38m	18:53	38m	19:31	14h 15m	10h 27m					Sa, 10. Feb
So, 11. Feb		19:52 – 05:57*	10h 05m	M _\ bis AN ₋		08:55	19:52	05:59	38m	06:37	38m	07:15	36m	07:52	9h 46m	17:39	36m	18											

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

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

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

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

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

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

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