

Mond- und Dämmerungstabelle 2024

für die visuelle Deep-Sky-Beobachtung

Lille 50.6372° N 3.0633° 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), M₇

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

Spalte 6 Mondphase.

Spalte 7 Mondaufgang.

Spalte 8 Monduntergang.

Spalte 9 Beginn der astr. Morgendämmerung (Sonnenhöhe = -18°).

Spalte 10 Dauer der astr. Morgendämmerung.

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

Spalte 12 Dauer der naut. Morgendämmerung.

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

Spalte 14 Dauer der bürg. Morgendämmerung.

Spalte 15 Sonnenaufgang.

Spalte 16 Taglänge.

Spalte 17 Sonnenuntergang.

Spalte 18 Dauer der bürg. Abenddämmerung.

Spalte 19 Ende der bürg. Abenddämmerung (Sonnenhöhe = -6°).

Spalte 20 Dauer der naut. Abenddämmerung.

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

Spalte 22 Dauer der astr. Abenddämmerung.

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

Spalte 24 Länge der Nacht.

Spalte 25 Länge der astr. Nacht.

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

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

Spalte 27 Dauer der in Spalte 26 angegebenen Zeitspanne.

Spalte 28 Ereignisse, die die nutzbare Zeitspanne begrenzen: ND₊ (Beginn der »naut. Dunkelheit« = Ende der naut. Abenddämmerung), M_v (Monduntergang), ND₋ (Ende der »naut. Dunkelheit« = Beginn der naut. Morgendämmerung), M₇ (Mondaufgang), Naut. MD (Nautische Mitternachtsdämmerung).

Spalte 29 Identisch zu Spalte 1.

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

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

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

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

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
2024	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	22:17-05:13*	6h 55m	AN ₊ bis AN ₋		11:49	21:29	05:11	43m	05:55	39m	06:35	35m	07:11	13h 07m	20:18	35m	20:54	39m	21:34	43m	22:17	10h 53m	6h 55m					Sa, 7. Sep
So, 8. Sep	MESZ	22:15-05:15*	7h 00m	AN ₊ bis AN ₋		13:02	21:45	05:13	43m	05:57	39m	06:37	35m	07:12	13h 04m	20:16	35m	20:52	39m	21:31	43m	22:15	10h 57m	7h 00m					So, 8. Sep
Mo, 9. Sep	MESZ	22:12-05:17*	7h 05m	AN ₊ bis AN ₋		14:16	22:06	05:15	43m	05:59	39m	06:38	35m	07:14	13h 00m	20:14	35m	20:49	39m	21:29	42m	22:12	11h 01m	7h 05m					Mo, 9. Sep
Di, 10. Sep	MESZ	22:37-05:19*	6h 42m	M _\ bis AN ₋		15:30	22:37	05:17	42m	06:00	39m	06:40	35m	07:15	12h 56m	20:12	35m	20:47	39m	21:26	42m	22:09	11h 05m	7h 10m					Di, 10. Sep
Mi, 11. Sep	MESZ	23:21-05:21*	5h 59m	M _\ bis AN ₋	☾	16:39	23:21	05:19	42m	06:02	39m	06:41	35m	07:17	12h 52m	20:10	35m	20:45	39m	21:24	42m	22:06	11h 08m	7h 15m					Mi, 11. Sep
Do, 12. Sep	MESZ	00:23*-05:23*	5h 00m	M _\ bis AN ₋		17:38	—:—	05:21	42m	06:04	39m	06:43	35m	07:18	12h 48m	20:07	35m	20:43	38m	21:21	42m	22:04	11h 12m	7h 19m					Do, 12. Sep
Fr, 13. Sep	MESZ	01:39*-05:25*	3h 45m	M _\ bis AN ₋		18:22	00:23	05:23	42m	06:06	39m	06:45	35m	07:20	12h 45m	20:05	35m	20:40	38m	21:19	41m	22:01	11h 16m	7h 24m					Fr, 13. Sep
Sa, 14. Sep	MESZ	03:07*-05:27*	2h 20m	M _\ bis AN ₋		18:55	01:39	05:25	41m	06:07	38m	06:46	35m	07:21	12h 41m	20:03	35m	20:38	38m	21:17	41m	21:58	11h 20m	7h 29m					Sa, 14. Sep
So, 15. Sep	MESZ	04:38*-05:29*	51m	M _\ bis AN ₋		19:18	03:07	05:27	41m	06:09	38m	06:48	35m	07:23	12h 37m	20:01	35m	20:36	38m	21:14	41m	21:56	11h 23m	7h 33m					So, 15. Sep
Mo, 16. Sep	MESZ	—:—:—:—	—	Mond stört		19:36	04:38	05:29	41m	06:11	38m	06:49	35m	07:24	12h 33m	19:58	34m	20:33	38m	21:12	41m	21:53	11h 27m	7h 38m					Mo, 16. Sep
Di, 17. Sep	MESZ	—:—:—:—	—	Mond stört		19:51	06:09	05:31	41m	06:13	38m	06:51	35m	07:26	12h 30m	19:56	34m	20:31	38m	21:09	40m	21:50	11h 31m	7h 42m					Di, 17. Sep
Mi, 18. Sep	MESZ	—:—:—:—	—	Mond stört	☾	20:06	07:40	05:33	41m	06:14	38m	06:53	34m	07:28	12h 26m	19:54	34m	20:29	38m	21:07	40m	21:48	11h 35m	7h 47m					Mi, 18. Sep
Do, 19. Sep	MESZ	—:—:~:~	—	Mond stört		20:20	09:11	05:35	40m	06:16	38m	06:54	34m	07:29	12h 22m	19:52	34m	20:26	38m	21:05	40m	21:45	11h 39m	7h 51m					Do, 19. Sep
Fr, 20. Sep	MESZ	—:~:~:~	—	Mond stört		20:37	10:43	05:37	40m	06:18	38m	06:56	34m	07:31	12h 18m	19:49	34m	20:24	38m	21:02	40m	21:43	11h 42m	7h 56m					Fr, 20. Sep
Sa, 21. Sep	MESZ	—:~:~:~	—	Mond stört		20:58	12:15	05:39	40m	06:19	38m	06:57	34m	07:32	12h 14m	19:47	34m	20:22	37m	21:00	40m	21:40	11h 46m	8h 00m					Sa, 21. Sep
So, 22. Sep	MESZ	—:~:~:~	—	Mond stört		21:26	13:45	05:41	40m	06:21	37m	06:59	34m	07:34	12h 11m	19:45	34m	20:20	37m	20:57	40m	21:37	11h 50m	8h 04m					So, 22. Sep
Mo, 23. Sep	MESZ	21:35-22:06	30m	AN ₊ bis M ₇		22:06	15:08	05:42	40m	06:23	37m	07:00	34m	07:35	12h 07m	19:43	34m	20:17	37m	20:55	39m	21:35	11h 54m	8h 09m					Mo, 23. Sep
Di, 24. Sep	MESZ	21:32-22:59	1h 26m	AN ₊ bis M ₇	☾	22:59	16:17	05:44	39m	06:24	37m	07:02	34m	07:37	12h 03m	19:40	34m	20:15	37m	20:53	39m	21:32	11h 58m	8h 13m					Di, 24. Sep
Mi, 25. Sep	MESZ	21:30-00:06*	2h 35m	AN ₊ bis M ₇		—:—	17:09	05:46	39m	06:26	37m	07:04	34m	07:38	11h 59m	19:38	34m	20:13	37m	20:50	39m	21:30	12h 01m	8h 17m					Mi, 25. Sep
Do, 26. Sep	MESZ	21:28-01:20*	3h 52m	AN ₊ bis M ₇		00:06	17:45	05:48	39m	06:28	37m	07:05	34m	07:40	11h 55m	19:36	34m	20:11	37m	20:48	39m	21:28	12h 05m	8h 22m					Do, 26. Sep
Fr, 27. Sep	MESZ	21:25-02:36*	5h 10m	AN ₊ bis M ₇		01:20	18:10	05:50	39m	06:29	37m	07:07	34m	07:41	11h 52m	19:34	34m	20:08	37m	20:46	39m	21:25	12h 09m	8h 26m					Fr, 27. Sep
Sa, 28. Sep	MESZ	21:23-03:50*	6h 27m	AN ₊ bis M ₇		02:36	18:28	05:51	39m	06:31	37m	07:08	34m	07:43	11h 48m	19:31	34m	20:06	37m	20:43	39m	21:23	12h 13m	8h 30m					Sa, 28. Sep
So, 29. Sep	MESZ	21:20-05:02*	7h 41m	AN ₊ bis M ₇		03:50	18:42	05:53	39m	06:32	37m	07:10	34m	07:45	11h 44m	19:29	34m	20:04	37m	20:41	39m	21:20	12h 16m	8h 34m					So, 29. Sep
Mo, 30. Sep	MESZ	21:18-05:57*	8h 38m	AN ₊ bis AN ₋		05:02	18:54	05:55	39m	06:34	37m	07:11	34m	07:46	11h 40m	19:27	34m	20:02	37m	20:39	38m	21:18	12h 20m	8h 38m					Mo, 30. Sep
Di, 1. Okt	MESZ	21:16-05:58*	8h 42m	AN ₊ bis AN ₋		06:12	19:04	05:57	39m	06:36	37m	07:13	34m	07:48	11h 37m	19:25	34m	19:59	37m	20:37	38m	21:16	12h 24m	8h 42m					Di, 1. Okt
Mi, 2. Okt	MESZ	21:13-06:00*	8h 46m	AN ₊ bis AN ₋	☾	07:20	19:14	05:58	38m	06:37	37m	07:15	34m	07:49	11h 33m	19:23	34m	19:57	37m	20:34	38m	21:13	12h 28m	8h 46m					Mi, 2. Okt
Do, 3. Okt	MESZ	21:11-06:02*	8h 50m	AN ₊ bis AN ₋		08:29	19:25	06:00	38m	06:39	37m	07:16	34m	07:51	11h 29m	19:20	34m	19:55	37m	20:32	38m	21:11	12h 32m	8h 50m					Do, 3. Okt
Fr, 4. Okt	MESZ	21:09-06:03*	8h 54m	AN ₊ bis AN ₋		09:39	19:37	06:02	38m	06:40	37m	07:18	34m	07:53	11h 25m	19:18	34m	19:53	37m	20:30	38m	21:09	12h 35m	8h 54m					Fr, 4. Okt
Sa, 5. Okt	MESZ	21:06-06:05*	8h 58m	AN ₊ bis AN ₋		10:51	19:51	06:03	38m	06:42	37m	07:19	34m	07:54	11h 21m	19:16	34m	19:51	37m	20:28	38m	21:06	12h 39m	8h 58m					Sa, 5. Okt
So, 6. Okt	MESZ	21:04-06:07*	9h 02m	AN ₊ bis AN ₋		12:04	20:11	06:05	38m	06:44	37m	07:21	34m	07:56	11h 18m	19:14	34m	19:49	37m	20:26	38m	21:04	12h 43m	9h 02m					So, 6. Okt
Mo, 7. Okt	MESZ	21:02-06:08*	9h 06m	AN ₊ bis AN ₋		13:18	20:38	06:07	38m	06:45	37m	07:23	34m	07:57	11h 14m	19:12	34m	19:46	37m	20:24	38m	21:02	12h 47m	9h 06m					Mo, 7. Okt
Di, 8. Okt	MESZ	21:16-06:10*	8h 53m	M _\ bis AN ₋		14:29	21:16	06:08	38m	06:47	37m	07:24	34m	07:59	11h 10m	19:09	34m	19:44	37m	20:21	38m	21:00	12h 51m	9h 10m					Di, 8. Okt
Mi, 9. Okt	MESZ	22:10-06:12*	8h 01m	M _\ bis AN ₋		15:30	22:10	06:10	38m	06:48	37m	07:26	34m	08:01	11h 06m	19:07	34m	19:42	37m	20:19	38m	20:57	12h 54m	9h 14m					Mi, 9. Okt
Do, 10. Okt	MESZ	23:19-06:13*	6h 54m	M _\ bis AN ₋	☾	16:18	23:19	06:12	38m	06:50	37m	07:27	34m	08:02	11h 03m	19:05	34m	19:40	37m	20:17	38m	20:55	12h 58m	9h 18m					Do, 10. Okt
Fr, 11. Okt	MESZ	00:39*-06:15*	5h 35m	M _\ bis AN ₋		16:54	—:—	06:13	38m	06:52	37m	07:29	34m	08:04	10h 59m	19:03	34m	19:38	37m	20:15	38m	20:53	13h 02m	9h 21m					Fr, 11. Okt
Sa, 12. Okt	MESZ	02:06*-06:17*	4h 10m	M _\ bis AN ₋		17:20	00:39	06:15	38m	06:53	37m	07:30	35m	08:05	10h 55m	19:01	34m	19:36	37m	20:13	38m	20:51	13h 06m	9h 25m					Sa, 12. Okt
So, 13. Okt	MESZ	03:35*-06:18*	2h 43m	M _\ bis AN ₋		17:40	02:06	06:17	38m	06:55	37m	07:32	35m	08:07	10h 51m	18:59	34m	19:34	37m	20:11	38m	20:49	13h 09m	9h 29m					So, 13. Okt
Mo, 14. Okt	MESZ	05:04*-06:20*	1h 16m	M _\ bis AN ₋		17:55	03:35	06:18	38m	06:56	37m	07:34	35m	08:09	10h 48m	18:57	35m	19:32	37m	20:09	37m	20:47	13h 13m	9h 32m					Mo, 14. Okt
Di, 15. Okt	MESZ	—:~:~:~	—	Mond stört		18:10	05:04	06:20	38m	06:58	37m	07:35	35m	08:10	10h 44m	18:55	35m	19:30	37m	20:07	37m	20:45	13h 17m	9h 36m					Di, 15. Okt
Mi, 16. Okt	MESZ	—:~:~:~	—	Mond stört		18:24	06:34	06:21	38m	06:59	37m	07:37	35m	08:12	10h 40m	18:53	35m	19:28	37m	20:05	37m	20:43	13h 20m	9h 40m					Mi, 16. Okt
Do, 17. Okt	MESZ	—:~:~:~	—	Mond stört	☾	18:39	08:05	06:23	37m	07:01	37m	07:38	35m	08:14	10h 37m	18:51	35m	19:26	37m	20:03	37m	20:41	13h 24m	9h 43m					Do, 17. Okt
Fr, 18. Okt	MESZ	—:~:~:~	—	Mond stört		18:58	09:38	06:25	37m	07:03	37m	07:40	35m	08:15	10h 33m														

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

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