

Mond- und Dämmerungstabelle 2024

für die visuelle Deep-Sky-Beobachtung

La Tour-du-Pin 45.5650° N 5.4444° 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	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		
Mo, 1. Jan		18:53 – 22:37	3h 43m	AN ₊ bis M ₇		22:37	11:34	06:29	35m	07:05	36m	07:41	36m	08:18	8h 46m	17:05	36m	17:41	36m	18:17	35m	18:53	15h 13m	11h 35m				Mo, 1. Jan
Di, 2. Jan		18:54 – 23:40	4h 45m	AN ₊ bis M ₇		23:40	11:50	06:29	35m	07:05	36m	07:42	36m	08:18	8h 47m	17:05	36m	17:42	36m	18:18	35m	18:54	15h 12m	11h 34m				Di, 2. Jan
Mi, 3. Jan		18:55 – 00:44*	5h 48m	AN ₊ bis M ₇		—:—	12:05	06:29	35m	07:05	36m	07:42	36m	08:18	8h 48m	17:06	36m	17:42	36m	18:19	35m	18:55	15h 11m	11h 34m				Mi, 3. Jan
Do, 4. Jan		18:56 – 01:49*	6h 53m	AN ₊ bis M ₇	☾	00:44	12:21	06:29	35m	07:05	36m	07:42	36m	08:18	8h 49m	17:07	36m	17:43	36m	18:20	35m	18:56	15h 10m	11h 33m				Do, 4. Jan
Fr, 5. Jan		18:57 – 02:58*	8h 00m	AN ₊ bis M ₇		01:49	12:38	06:29	35m	07:05	36m	07:42	35m	08:18	8h 50m	17:08	35m	17:44	36m	18:21	35m	18:57	15h 08m	11h 32m				Fr, 5. Jan
Sa, 6. Jan		18:58 – 04:10*	9h 11m	AN ₊ bis M ₇		02:58	12:58	06:29	35m	07:05	36m	07:42	35m	08:17	8h 52m	17:09	35m	17:45	36m	18:22	35m	18:58	15h 07m	11h 31m				Sa, 6. Jan
So, 7. Jan		18:59 – 05:25*	10h 25m	AN ₊ bis M ₇		04:10	13:23	06:29	35m	07:05	36m	07:41	35m	08:17	8h 53m	17:11	35m	17:46	36m	18:23	35m	18:59	15h 06m	11h 30m				So, 7. Jan
Mo, 8. Jan		19:00 – 06:29*	11h 29m	AN ₊ bis AN ₋		05:25	13:56	06:29	35m	07:05	36m	07:41	35m	08:17	8h 54m	17:12	35m	17:47	36m	18:24	35m	19:00	15h 05m	11h 29m				Mo, 8. Jan
Di, 9. Jan		19:01 – 06:29*	11h 28m	AN ₊ bis AN ₋		06:39	14:42	06:29	35m	07:05	36m	07:41	35m	08:17	8h 56m	17:13	35m	17:48	36m	18:25	35m	19:01	15h 03m	11h 28m				Di, 9. Jan
Mi, 10. Jan		19:02 – 06:29*	11h 27m	AN ₊ bis AN ₋		07:48	15:42	06:29	35m	07:04	36m	07:41	35m	08:16	8h 57m	17:14	35m	17:50	36m	18:26	35m	19:02	15h 02m	11h 27m				Mi, 10. Jan
Do, 11. Jan		19:03 – 06:28*	11h 25m	AN ₊ bis AN ₋	☾	08:45	16:57	06:29	35m	07:04	36m	07:41	35m	08:16	8h 59m	17:15	35m	17:51	36m	18:27	35m	19:03	15h 00m	11h 25m				Do, 11. Jan
Fr, 12. Jan		19:04 – 06:28*	11h 24m	AN ₊ bis AN ₋		09:30	18:20	06:28	35m	07:04	36m	07:40	35m	08:16	9h 00m	17:16	35m	17:52	36m	18:28	35m	19:04	14h 58m	11h 24m				Fr, 12. Jan
Sa, 13. Jan		19:46 – 06:28*	10h 41m	M _\ bis AN ₋		10:03	19:46	06:28	35m	07:04	36m	07:40	35m	08:15	9h 02m	17:18	35m	17:53	36m	18:29	35m	19:05	14h 57m	11h 23m				Sa, 13. Jan
So, 14. Jan		21:10 – 06:27*	9h 17m	M _\ bis AN ₋		10:30	21:10	06:28	35m	07:03	36m	07:39	35m	08:15	9h 04m	17:19	35m	17:54	36m	18:30	35m	19:06	14h 55m	11h 21m				So, 14. Jan
Mo, 15. Jan		22:30 – 06:27*	7h 56m	M _\ bis AN ₋		10:51	22:30	06:27	35m	07:03	36m	07:39	35m	08:14	9h 05m	17:20	35m	17:55	36m	18:31	35m	19:07	14h 53m	11h 20m				Mo, 15. Jan
Di, 16. Jan		23:48 – 06:27*	6h 38m	M _\ bis AN ₋		11:11	23:48	06:27	35m	07:03	35m	07:38	35m	08:14	9h 07m	17:21	35m	17:56	35m	18:32	35m	19:08	14h 51m	11h 18m				Di, 16. Jan
Mi, 17. Jan		01:05* – 06:26*	5h 20m	M _\ bis AN ₋		11:30	—:—	06:27	35m	07:02	35m	07:38	35m	08:13	9h 09m	17:23	35m	17:58	35m	18:34	35m	19:09	14h 49m	11h 17m				Mi, 17. Jan
Do, 18. Jan		02:22* – 06:26*	4h 03m	M _\ bis AN ₋	☾	11:50	01:05	06:26	35m	07:02	35m	07:37	34m	08:12	9h 11m	17:24	34m	17:59	35m	18:35	35m	19:10	14h 47m	11h 15m				Do, 18. Jan
Fr, 19. Jan		03:38* – 06:25*	2h 46m	M _\ bis AN ₋		12:13	02:22	06:26	35m	07:01	35m	07:37	34m	08:12	9h 13m	17:25	34m	18:00	35m	18:36	35m	19:11	14h 45m	11h 13m				Fr, 19. Jan
Sa, 20. Jan		04:53* – 06:25*	1h 32m	M _\ bis AN ₋		12:41	03:38	06:25	35m	07:00	35m	07:36	34m	08:11	9h 15m	17:27	34m	18:01	35m	18:37	35m	19:12	14h 43m	11h 12m				Sa, 20. Jan
So, 21. Jan		06:01* – 06:24*	22m	M _\ bis AN ₋		13:16	04:53	06:25	35m	07:00	35m	07:35	34m	08:10	9h 17m	17:28	34m	18:03	35m	18:38	35m	19:14	14h 41m	11h 10m				So, 21. Jan
Mo, 22. Jan		—:— —:— —:—	–	Mond stört		14:01	06:01	06:24	35m	06:59	35m	07:35	34m	08:09	9h 20m	17:29	34m	18:04	35m	18:40	35m	19:15	14h 39m	11h 08m				Mo, 22. Jan
Di, 23. Jan		—:— —:— —:—	–	Mond stört		14:55	07:01	06:23	35m	06:59	35m	07:34	34m	08:09	9h 22m	17:31	34m	18:05	35m	18:41	35m	19:16	14h 36m	11h 06m				Di, 23. Jan
Mi, 24. Jan		—:~ —:~ —:~	–	Mond stört		15:57	07:50	06:23	35m	06:58	35m	07:33	34m	08:08	9h 24m	17:32	34m	18:07	35m	18:42	35m	19:17	14h 34m	11h 04m				Mi, 24. Jan
Do, 25. Jan		—:~ —:~ —:~	–	Mond stört	☾	17:05	08:27	06:22	35m	06:57	35m	07:32	34m	08:07	9h 26m	17:34	34m	18:08	35m	18:43	35m	19:18	14h 32m	11h 03m				Do, 25. Jan
Fr, 26. Jan		—:~ —:~ —:~	–	Mond stört		18:13	08:56	06:21	34m	06:56	35m	07:32	34m	08:06	9h 29m	17:35	34m	18:09	35m	18:44	35m	19:19	14h 29m	11h 01m				Fr, 26. Jan
Sa, 27. Jan		—:~ —:~ —:~	–	Mond stört		19:20	09:20	06:21	34m	06:55	35m	07:31	34m	08:05	9h 31m	17:36	34m	18:11	35m	18:46	34m	19:21	14h 27m	10h 59m				Sa, 27. Jan
So, 28. Jan		19:22 – 20:25	1h 03m	AN ₊ bis M ₇		20:25	09:38	06:20	34m	06:55	35m	07:30	33m	08:04	9h 34m	17:38	34m	18:12	35m	18:47	34m	19:22	14h 24m	10h 56m				So, 28. Jan
Mo, 29. Jan		19:23 – 21:29	2h 05m	AN ₊ bis M ₇		21:29	09:55	06:19	34m	06:54	35m	07:29	33m	08:03	9h 36m	17:39	33m	18:13	35m	18:48	34m	19:23	14h 22m	10h 54m				Mo, 29. Jan
Di, 30. Jan		19:24 – 22:32	3h 08m	AN ₊ bis M ₇		22:32	10:10	06:18	34m	06:53	34m	07:28	33m	08:02	9h 39m	17:41	33m	18:15	35m	18:50	34m	19:24	14h 19m	10h 52m				Di, 30. Jan
Mi, 31. Jan		19:26 – 23:36	4h 10m	AN ₊ bis M ₇		23:36	10:25	06:17	34m	06:52	34m	07:27	33m	08:00	9h 41m	17:42	33m	18:16	34m	18:51	34m	19:26	14h 17m	10h 50m				Mi, 31. Jan
Do, 1. Feb		19:27 – 00:42*	5h 15m	AN ₊ bis M ₇		—:~	10:41	06:16	34m	06:51	34m	07:26	33m	07:59	9h 44m	17:44	33m	18:17	34m	18:52	34m	19:27	14h 14m	10h 48m				Do, 1. Feb
Fr, 2. Feb		19:28 – 01:51*	6h 23m	AN ₊ bis M ₇		00:42	11:00	06:15	34m	06:50	34m	07:25	33m	07:58	9h 46m	17:45	33m	18:19	34m	18:53	34m	19:28	14h 11m	10h 45m				Fr, 2. Feb
Sa, 3. Feb		19:29 – 03:03*	7h 33m	AN ₊ bis M ₇	☾	01:51	11:22	06:14	34m	06:49	34m	07:23	33m	07:57	9h 49m	17:47	33m	18:20	34m	18:55	34m	19:29	14h 09m	10h 43m				Sa, 3. Feb
So, 4. Feb		19:31 – 04:16*	8h 45m	AN ₊ bis M ₇		03:03	11:50	06:13	34m	06:48	34m	07:22	33m	07:56	9h 52m	17:48	33m	18:21	34m	18:56	34m	19:31	14h 06m	10h 41m				So, 4. Feb
Mo, 5. Feb		19:32 – 05:27*	9h 54m	AN ₊ bis M ₇		04:16	12:28	06:12	34m	06:47	34m	07:21	33m	07:54	9h 55m	17:49	33m	18:23	34m	18:57	34m	19:32	14h 03m	10h 38m				Mo, 5. Feb
Di, 6. Feb		19:33 – 06:10*	10h 36m	AN ₊ bis AN ₋		05:27	13:20	06:11	34m	06:45	34m	07:20	33m	07:53	9h 57m	17:51	33m	18:24	34m	18:59	34m	19:33	14h 00m	10h 36m				Di, 6. Feb
Mi, 7. Feb		19:35 – 06:09*	10h 34m	AN ₊ bis AN ₋		06:29	14:27	06:10	34m	06:44	34m	07:19	33m	07:52	10h 00m	17:52	33m	18:25	34m	19:00	34m	19:35	13h 58m	10h 34m				Mi, 7. Feb
Do, 8. Feb		19:36 – 06:07*	10h 31m	AN ₊ bis AN ₋		07:20	15:47	06:09	34m	06:43	34m	07:17	32m	07:50	10h 03m	17:54	33m	18:27	34m	19:01	34m	19:36	13h 55m	10h 31m				Do, 8. Feb
Fr, 9. Feb		19:37 – 06:06*	10h 29m	AN ₊ bis AN ₋	☾	07:58	17:13	06:07	34m	06:42	34m	07:16	32m	07:49	10h 06m	17:55	32m	18:28	34m	19:03	34m	19:37	13h 52m	10h 29m				Fr, 9. Feb
Sa, 10. Feb		19:38 – 06:05*	10h 26m	AN ₊ bis AN ₋		08:28	18:40	06:06	34m	06:41	34m	07:15	32m	07:48	10h 09m	17:57	32m	18:30	34m	19:04	34m	19:38	13h 49m	10h 26m				Sa, 10. Feb
So, 11. Feb		20:06 – 06:04*	9h 57m	M _\ bis AN ₋		08:53	20:06	06:05	34m	06:39	34m	07:13	32m	07:46	10h 12m	17:58	32m	18:31	34m	19:05	34m	19:40	13h 46m	10h 23m				So, 11. Feb
Mo,																												

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

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

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

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

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

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