

Mond- und Dämmerungstabelle 2024

für die visuelle Deep-Sky-Beobachtung

Ingelheim am Rhein 49.9742° N 8.0542° 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-	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		
Mo, 1. Jan		18:36–22:20	3h 43m	AN ₊ bis M _J		22:20	11:31	06:25	39m	07:04	40m	07:45	40m	08:25	8h 10m	16:36	40m	17:17	40m	17:57	39m	18:36	15h 49m	11h 48m				Mo, 1. Jan
Di, 2. Jan		18:37–23:28	4h 50m	AN ₊ bis M _J		23:28	11:43	06:25	39m	07:04	40m	07:45	40m	08:25	8h 11m	16:37	40m	17:18	40m	17:58	39m	18:37	15h 47m	11h 48m				Di, 2. Jan
Mi, 3. Jan		18:38–00:36*	5h 57m	AN ₊ bis M _J		—:—	11:54	06:25	39m	07:04	40m	07:45	40m	08:25	8h 13m	16:38	40m	17:19	40m	17:59	39m	18:38	15h 46m	11h 47m				Mi, 3. Jan
Do, 4. Jan		18:39–01:45*	7h 06m	AN ₊ bis M _J	☾	00:36	12:06	06:25	39m	07:04	40m	07:45	40m	08:25	8h 14m	16:39	40m	17:20	40m	18:00	39m	18:39	15h 45m	11h 46m				Do, 4. Jan
Fr, 5. Jan		18:40–02:58*	8h 18m	AN ₊ bis M _J		01:45	12:18	06:25	39m	07:04	40m	07:45	40m	08:25	8h 15m	16:40	40m	17:21	40m	18:01	39m	18:40	15h 44m	11h 45m				Fr, 5. Jan
Sa, 6. Jan		18:41–04:15*	9h 34m	AN ₊ bis M _J		02:58	12:34	06:25	39m	07:04	40m	07:44	40m	08:24	8h 17m	16:42	40m	17:22	40m	18:02	39m	18:41	15h 42m	11h 44m				Sa, 6. Jan
So, 7. Jan		18:42–05:35*	10h 53m	AN ₊ bis M _J		04:15	12:55	06:25	39m	07:04	40m	07:44	40m	08:24	8h 18m	16:43	40m	17:23	40m	18:03	39m	18:42	15h 40m	11h 42m				So, 7. Jan
Mo, 8. Jan		18:43–06:25*	11h 41m	AN ₊ bis AN ₋		05:35	13:23	06:25	38m	07:04	40m	07:44	39m	08:24	8h 20m	16:44	39m	17:24	40m	18:04	38m	18:43	15h 39m	11h 41m				Mo, 8. Jan
Di, 9. Jan		18:44–06:24*	11h 40m	AN ₊ bis AN ₋		06:54	14:05	06:25	38m	07:04	39m	07:44	39m	08:23	8h 21m	16:45	39m	17:25	39m	18:05	38m	18:44	15h 37m	11h 40m				Di, 9. Jan
Mi, 10. Jan		18:45–06:24*	11h 38m	AN ₊ bis AN ₋		08:04	15:04	06:24	38m	07:03	39m	07:43	39m	08:23	8h 23m	16:47	39m	17:26	39m	18:06	38m	18:45	15h 35m	11h 38m				Mi, 10. Jan
Do, 11. Jan		18:46–06:24*	11h 37m	AN ₊ bis AN ₋	☾	09:00	16:21	06:24	38m	07:03	39m	07:43	39m	08:22	8h 25m	16:48	39m	17:28	39m	18:07	38m	18:46	15h 33m	11h 37m				Do, 11. Jan
Fr, 12. Jan		18:47–06:23*	11h 35m	AN ₊ bis AN ₋		09:40	17:49	06:24	38m	07:03	39m	07:42	39m	08:22	8h 27m	16:49	39m	17:29	39m	18:09	38m	18:47	15h 31m	11h 35m				Fr, 12. Jan
Sa, 13. Jan		19:21–06:23*	11h 01m	M _\ bis AN ₋		10:08	19:21	06:23	38m	07:02	39m	07:42	39m	08:21	8h 29m	16:51	39m	17:30	39m	18:10	38m	18:49	15h 29m	11h 34m				Sa, 13. Jan
So, 14. Jan		20:50–06:22*	9h 32m	M _\ bis AN ₋		10:29	20:50	06:23	38m	07:02	39m	07:41	39m	08:21	8h 31m	16:52	39m	17:31	39m	18:11	38m	18:50	15h 27m	11h 32m				So, 14. Jan
Mo, 15. Jan		22:16–06:22*	8h 05m	M _\ bis AN ₋		10:46	22:16	06:22	38m	07:01	39m	07:41	39m	08:20	8h 33m	16:54	39m	17:33	39m	18:12	38m	18:51	15h 25m	11h 31m				Mo, 15. Jan
Di, 16. Jan		23:40–06:21*	6h 41m	M _\ bis AN ₋		11:01	23:40	06:22	38m	07:01	39m	07:40	39m	08:19	8h 36m	16:55	39m	17:34	39m	18:14	38m	18:52	15h 23m	11h 29m				Di, 16. Jan
Mi, 17. Jan		01:02*–06:21*	5h 18m	M _\ bis AN ₋		11:15	—:—	06:21	38m	07:00	39m	07:39	38m	08:18	8h 38m	16:57	38m	17:36	39m	18:15	38m	18:53	15h 20m	11h 27m				Mi, 17. Jan
Do, 18. Jan		02:24*–06:20*	3h 56m	M _\ bis AN ₋	☾	11:30	01:02	06:21	38m	06:59	39m	07:39	38m	08:17	8h 40m	16:58	38m	17:37	39m	18:16	38m	18:55	15h 18m	11h 25m				Do, 18. Jan
Fr, 19. Jan		03:45*–06:20*	2h 34m	M _\ bis AN ₋		11:49	02:24	06:20	38m	06:59	39m	07:38	38m	08:17	8h 43m	17:00	38m	17:38	39m	18:18	38m	18:56	15h 15m	11h 23m				Fr, 19. Jan
Sa, 20. Jan		05:04*–06:19*	1h 14m	M _\ bis AN ₋		12:12	03:45	06:20	38m	06:58	39m	07:37	38m	08:16	8h 45m	17:01	38m	17:40	39m	18:19	38m	18:57	15h 13m	11h 21m				Sa, 20. Jan
So, 21. Jan		06:17*–06:18*	1m	M _\ bis AN ₋		12:42	05:04	06:19	38m	06:57	39m	07:36	38m	08:15	8h 48m	17:03	38m	17:41	39m	18:20	38m	18:59	15h 10m	11h 19m				So, 21. Jan
Mo, 22. Jan		—:—:—:—	–	Mond stört		13:23	06:17	06:18	38m	06:56	38m	07:35	38m	08:14	8h 50m	17:04	38m	17:43	38m	18:22	38m	19:00	15h 08m	11h 17m				Mo, 22. Jan
Di, 23. Jan		—:—:—:—	–	Mond stört		14:17	07:17	06:17	38m	06:55	38m	07:34	38m	08:12	8h 53m	17:06	38m	17:44	38m	18:23	38m	19:01	15h 05m	11h 15m				Di, 23. Jan
Mi, 24. Jan		—:—:—:—	–	Mond stört		15:22	08:04	06:16	38m	06:55	38m	07:33	38m	08:11	8h 56m	17:08	38m	17:46	38m	18:24	38m	19:03	15h 02m	11h 12m				Mi, 24. Jan
Do, 25. Jan		—:—:—:—	–	Mond stört	☾	16:33	08:38	06:16	38m	06:54	38m	07:32	37m	08:10	8h 58m	17:09	37m	17:47	38m	18:26	38m	19:04	14h 59m	11h 10m				Do, 25. Jan
Fr, 26. Jan		—:—:~:~	–	Mond stört		17:46	09:03	06:15	38m	06:53	38m	07:31	37m	08:09	9h 01m	17:11	37m	17:49	38m	18:27	38m	19:05	14h 56m	11h 08m				Fr, 26. Jan
Sa, 27. Jan		—:~:~:~	–	Mond stört		18:57	09:22	06:14	37m	06:52	38m	07:30	37m	08:08	9h 04m	17:13	37m	17:50	38m	18:29	38m	19:07	14h 54m	11h 05m				Sa, 27. Jan
So, 28. Jan		19:08–20:07	58m	AN ₊ bis M _J		20:07	09:37	06:13	37m	06:51	38m	07:29	37m	08:07	9h 07m	17:14	37m	17:52	38m	18:30	37m	19:08	14h 51m	11h 03m				So, 28. Jan
Mo, 29. Jan		19:10–21:15	2h 05m	AN ₊ bis M _J		21:15	09:49	06:12	37m	06:50	38m	07:28	37m	08:05	9h 10m	17:16	37m	17:53	38m	18:32	37m	19:10	14h 48m	11h 01m				Mo, 29. Jan
Di, 30. Jan		19:11–22:23	3h 11m	AN ₊ bis M _J		22:23	10:01	06:11	37m	06:48	38m	07:27	37m	08:04	9h 13m	17:18	37m	17:55	38m	18:33	37m	19:11	14h 45m	10h 58m				Di, 30. Jan
Mi, 31. Jan		19:12–23:31	4h 18m	AN ₊ bis M _J		23:31	10:12	06:09	37m	06:47	38m	07:25	37m	08:03	9h 16m	17:19	37m	17:56	38m	18:35	37m	19:12	14h 41m	10h 55m				Mi, 31. Jan
Do, 1. Feb		19:14–00:41*	5h 27m	AN ₊ bis M _J		—:—	10:24	06:08	37m	06:46	38m	07:24	37m	08:01	9h 19m	17:21	37m	17:58	38m	18:36	37m	19:14	14h 38m	10h 53m				Do, 1. Feb
Fr, 2. Feb		19:15–01:55*	6h 39m	AN ₊ bis M _J		00:41	10:38	06:07	37m	06:45	37m	07:23	36m	08:00	9h 22m	17:23	36m	18:00	37m	18:38	37m	19:15	14h 35m	10h 50m				Fr, 2. Feb
Sa, 3. Feb		19:17–03:12*	7h 54m	AN ₊ bis M _J	☾	01:55	10:55	06:06	37m	06:44	37m	07:21	36m	07:58	9h 26m	17:24	36m	18:01	37m	18:39	37m	19:17	14h 32m	10h 47m				Sa, 3. Feb
So, 4. Feb		19:18–04:30*	9h 11m	AN ₊ bis M _J		03:12	11:19	06:05	37m	06:42	37m	07:20	36m	07:57	9h 29m	17:26	36m	18:03	37m	18:41	37m	19:18	14h 29m	10h 45m				So, 4. Feb
Mo, 5. Feb		19:20–05:43*	10h 23m	AN ₊ bis M _J		04:30	11:53	06:03	37m	06:41	37m	07:19	36m	07:55	9h 32m	17:28	36m	18:04	37m	18:42	37m	19:20	14h 25m	10h 42m				Mo, 5. Feb
Di, 6. Feb		19:21–06:01*	10h 39m	AN ₊ bis AN ₋		05:43	12:42	06:02	37m	06:40	37m	07:17	36m	07:54	9h 35m	17:30	36m	18:06	37m	18:44	37m	19:21	14h 22m	10h 39m				Di, 6. Feb
Mi, 7. Feb		19:23–05:59*	10h 36m	AN ₊ bis AN ₋		06:45	13:49	06:01	37m	06:38	37m	07:16	36m	07:52	9h 39m	17:31	36m	18:08	37m	18:45	37m	19:23	14h 19m	10h 36m				Mi, 7. Feb
Do, 8. Feb		19:24–05:58*	10h 33m	AN ₊ bis AN ₋		07:32	15:13	05:59	37m	06:37	37m	07:14	36m	07:50	9h 42m	17:33	36m	18:09	37m	18:47	37m	19:24	14h 15m	10h 33m				Do, 8. Feb
Fr, 9. Feb		19:26–05:56*	10h 30m	AN ₊ bis AN ₋	☾	08:06	16:45	05:58	37m	06:35	37m	07:13	36m	07:49	9h 45m	17:35	36m	18:11	37m	18:48	37m	19:26	14h 12m	10h 30m				Fr, 9. Feb
Sa, 10. Feb		19:27–05:55*	10h 27m	AN ₊ bis AN ₋		08:30	18:19	05:56	37m	06:34	37m	07:11	35m	07:47	9h 49m	17:36	36m	18:12	37m	18:50	37m	19:27	14h 09m	10h 27m				Sa, 10. Feb
So, 11. Feb		19:50–05:53*	10h 03m	M _\ bis AN ₋		08:49	19:50	05:55	37m	06:32	37m	07:10	35m	07:45	9h 52m	17:38	35m	18:14	37m	18:51	37m	19:29	14h 05m	10h 24m				So, 11. Feb
Mo, 12. Feb		21:18–05:52*	8h 34m	M _\ bis AN ₋		09:05																						

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

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

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

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

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

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