

Mond- und Dämmerungstabelle 2023

für die visuelle Deep-Sky-Beobachtung

Forst (Lausitz) 51.7442° N 14.6475° 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 angegebenen 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
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
			Δt		Ph.	\nearrow	\searrow	Astr.	Δt	Naut.	Δt	Bürg.	Δt	\nearrow	Δt	\searrow	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
So, 1. Jan		03:50*–06:02*	2h 11m	M _\ bis AN _\		12:30	02:33	06:02	40m	06:42	42m	07:25	42m	08:07	7h 54m	16:02	42m	16:44	42m	17:26	40m	18:07	16h 05m	11h 54m				So, 1. Jan
Mo, 2. Jan		05:06*–06:02*	55m	M _\ bis AN _\		12:47	03:50	06:02	40m	06:42	42m	07:25	42m	08:07	7h 55m	16:03	42m	16:45	42m	17:27	40m	18:08	16h 04m	11h 53m				Mo, 2. Jan
Di, 3. Jan		—:—:—:—	–	Mond stört		13:09	05:06	06:02	40m	06:42	42m	07:25	42m	08:07	7h 56m	16:04	42m	16:46	42m	17:28	40m	18:09	16h 03m	11h 52m				Di, 3. Jan
Mi, 4. Jan		—:—:—:—	–	Mond stört		13:38	06:19	06:02	40m	06:42	42m	07:24	42m	08:07	7h 58m	16:05	42m	16:47	42m	17:29	40m	18:10	16h 01m	11h 51m				Mi, 4. Jan
Do, 5. Jan		—:—:—:—	–	Mond stört		14:17	07:25	06:02	40m	06:42	41m	07:24	42m	08:06	7h 59m	16:06	42m	16:48	42m	17:30	40m	18:11	16h 00m	11h 50m				Do, 5. Jan
Fr, 6. Jan		—:~:~:~:~	–	Mond stört		15:08	08:21	06:01	40m	06:42	41m	07:24	42m	08:06	8h 01m	16:07	42m	16:50	41m	17:31	40m	18:12	15h 58m	11h 49m				Fr, 6. Jan
Sa, 7. Jan		—:~:~:~:~	–	Mond stört	○	16:09	09:04	06:01	40m	06:42	41m	07:24	42m	08:06	8h 02m	16:09	42m	16:51	41m	17:33	40m	18:13	15h 56m	11h 47m				Sa, 7. Jan
So, 8. Jan		—:~:~:~:~	–	Mond stört		17:18	09:36	06:01	40m	06:42	41m	07:23	41m	08:05	8h 04m	16:10	41m	16:52	41m	17:34	40m	18:14	15h 54m	11h 46m				So, 8. Jan
Mo, 9. Jan		18:15–18:30	14m	AN ₊ bis M ₇		18:30	09:59	06:01	40m	06:41	41m	07:23	41m	08:05	8h 06m	16:11	41m	16:53	41m	17:35	40m	18:15	15h 52m	11h 45m				Mo, 9. Jan
Di, 10. Jan		18:16–19:42	1h 25m	AN ₊ bis M ₇		19:42	10:17	06:00	40m	06:41	41m	07:22	41m	08:04	8h 08m	16:13	41m	16:54	41m	17:36	40m	18:16	15h 50m	11h 43m				Di, 10. Jan
Mi, 11. Jan		18:18–20:54	2h 36m	AN ₊ bis M ₇		20:54	10:32	06:00	40m	06:40	41m	07:22	41m	08:04	8h 10m	16:14	41m	16:56	41m	17:37	40m	18:18	15h 48m	11h 42m				Mi, 11. Jan
Do, 12. Jan		18:19–22:05	3h 46m	AN ₊ bis M ₇		22:05	10:44	06:00	40m	06:40	41m	07:21	41m	08:03	8h 12m	16:16	41m	16:57	41m	17:39	40m	18:19	15h 46m	11h 40m				Do, 12. Jan
Fr, 13. Jan		18:20–23:18	4h 57m	AN ₊ bis M ₇		23:18	10:55	05:59	40m	06:40	41m	07:21	41m	08:02	8h 14m	16:17	41m	16:58	41m	17:40	40m	18:20	15h 44m	11h 38m				Fr, 13. Jan
Sa, 14. Jan		18:21–00:32*	6h 10m	AN ₊ bis M ₇		—:—	11:06	05:59	40m	06:39	41m	07:20	41m	08:02	8h 17m	16:19	41m	17:00	41m	17:41	40m	18:21	15h 42m	11h 36m				Sa, 14. Jan
So, 15. Jan		18:23–01:51*	7h 28m	AN ₊ bis M ₇	●	00:32	11:18	05:58	40m	06:38	41m	07:20	41m	08:01	8h 19m	16:20	41m	17:01	41m	17:42	40m	18:23	15h 39m	11h 35m				So, 15. Jan
Mo, 16. Jan		18:24–03:14*	8h 50m	AN ₊ bis M ₇		01:51	11:34	05:58	40m	06:38	41m	07:19	40m	08:00	8h 21m	16:22	40m	17:03	41m	17:44	40m	18:24	15h 37m	11h 33m				Mo, 16. Jan
Di, 17. Jan		18:25–04:41*	10h 15m	AN ₊ bis M ₇		03:14	11:53	05:57	40m	06:37	41m	07:18	40m	07:59	8h 24m	16:23	40m	17:04	41m	17:45	40m	18:25	15h 34m	11h 31m				Di, 17. Jan
Mi, 18. Jan		18:27–05:56*	11h 29m	AN ₊ bis AN _\		04:41	12:22	05:56	39m	06:36	40m	07:17	40m	07:58	8h 26m	16:25	40m	17:06	40m	17:47	39m	18:27	15h 32m	11h 29m				Mi, 18. Jan
Do, 19. Jan		18:28–05:55*	11h 27m	AN ₊ bis AN _\		06:06	13:05	05:56	39m	06:36	40m	07:16	40m	07:57	8h 29m	16:27	40m	17:07	40m	17:48	39m	18:28	15h 29m	11h 27m				Do, 19. Jan
Fr, 20. Jan		18:29–05:54*	11h 24m	AN ₊ bis AN _\		07:21	14:08	05:55	39m	06:35	40m	07:16	40m	07:56	8h 32m	16:28	40m	17:09	40m	17:49	39m	18:29	15h 26m	11h 24m				Fr, 20. Jan
Sa, 21. Jan		18:31–05:53*	11h 22m	AN ₊ bis AN _\	●	08:17	15:31	05:54	39m	06:34	40m	07:15	40m	07:55	8h 35m	16:30	40m	17:10	40m	17:51	39m	18:31	15h 23m	11h 22m				Sa, 21. Jan
So, 22. Jan		18:32–05:52*	11h 20m	AN ₊ bis AN _\		08:56	17:05	05:53	39m	06:33	40m	07:14	40m	07:54	8h 37m	16:32	40m	17:12	40m	17:52	39m	18:32	15h 20m	11h 20m				So, 22. Jan
Mo, 23. Jan		18:40–05:52*	11h 11m	M _\ bis AN _\		09:22	18:40	05:52	39m	06:32	40m	07:13	39m	07:53	8h 40m	16:33	39m	17:13	40m	17:54	39m	18:33	15h 17m	11h 18m				Mo, 23. Jan
Di, 24. Jan		20:11–05:51*	9h 39m	M _\ bis AN _\		09:41	20:11	05:52	39m	06:31	40m	07:11	39m	07:51	8h 43m	16:35	39m	17:15	40m	17:55	39m	18:35	15h 14m	11h 15m				Di, 24. Jan
Mi, 25. Jan		21:37–05:50*	8h 12m	M _\ bis AN _\		09:56	21:37	05:51	39m	06:30	40m	07:10	39m	07:50	8h 46m	16:37	39m	17:16	40m	17:57	39m	18:36	15h 11m	11h 13m				Mi, 25. Jan
Do, 26. Jan		23:00–05:49*	6h 48m	M _\ bis AN _\		10:10	23:00	05:50	39m	06:29	40m	07:09	39m	07:49	8h 49m	16:39	39m	17:18	40m	17:58	39m	18:38	15h 08m	11h 10m				Do, 26. Jan
Fr, 27. Jan		00:20*–05:47*	5h 27m	M _\ bis AN _\		10:23	—:—	05:49	39m	06:28	40m	07:08	39m	07:47	8h 52m	16:40	39m	17:20	40m	18:00	39m	18:39	15h 05m	11h 08m				Fr, 27. Jan
Sa, 28. Jan		01:38*–05:46*	4h 07m	M _\ bis AN _\	●	10:36	00:20	05:47	39m	06:27	39m	07:07	39m	07:46	8h 56m	16:42	39m	17:21	39m	18:01	39m	18:41	15h 02m	11h 05m				Sa, 28. Jan
So, 29. Jan		02:56*–05:45*	2h 49m	M _\ bis AN _\		10:52	01:38	05:46	39m	06:26	39m	07:05	39m	07:45	8h 59m	16:44	39m	17:23	39m	18:03	39m	18:42	14h 59m	11h 02m				So, 29. Jan
Mo, 30. Jan		04:10*–05:44*	1h 33m	M _\ bis AN _\		11:12	02:56	05:45	39m	06:24	39m	07:04	38m	07:43	9h 02m	16:46	38m	17:25	39m	18:04	39m	18:44	14h 55m	11h 00m				Mo, 30. Jan
Di, 31. Jan		05:19*–05:43*	23m	M _\ bis AN _\		11:39	04:10	05:44	39m	06:23	39m	07:03	38m	07:42	9h 05m	16:48	38m	17:26	39m	18:06	39m	18:45	14h 52m	10h 57m				Di, 31. Jan
Mi, 1. Feb		—:~:~:~:~	–	Mond stört		12:15	05:19	05:43	39m	06:22	39m	07:01	38m	07:40	9h 09m	16:49	38m	17:28	39m	18:08	39m	18:47	14h 49m	10h 54m				Mi, 1. Feb
Do, 2. Feb		—:~:~:~:~	–	Mond stört		13:02	06:18	05:41	39m	06:21	39m	07:00	38m	07:39	9h 12m	16:51	38m	17:30	39m	18:09	39m	18:48	14h 45m	10h 51m				Do, 2. Feb
Fr, 3. Feb		—:~:~:~:~	–	Mond stört		14:00	07:04	05:40	39m	06:19	39m	06:59	38m	07:37	9h 16m	16:53	38m	17:31	39m	18:11	39m	18:50	14h 42m	10h 48m				Fr, 3. Feb
Sa, 4. Feb		—:~:~:~:~	–	Mond stört		15:07	07:39	05:39	39m	06:18	39m	06:57	38m	07:35	9h 19m	16:55	38m	17:33	39m	18:12	39m	18:52	14h 38m	10h 45m				Sa, 4. Feb
So, 5. Feb		—:~:~:~:~	–	Mond stört	○	16:19	08:05	05:37	39m	06:16	39m	06:56	38m	07:34	9h 23m	16:57	38m	17:35	39m	18:14	39m	18:53	14h 35m	10h 42m				So, 5. Feb
Mo, 6. Feb		—:~:~:~:~	–	Mond stört		17:32	08:24	05:36	38m	06:15	39m	06:54	37m	07:32	9h 26m	16:59	38m	17:37	39m	18:16	39m	18:55	14h 31m	10h 39m				Mo, 6. Feb
Di, 7. Feb		—:~:~:~:~	–	Mond stört		18:44	08:39	05:34	38m	06:13	39m	06:52	37m	07:30	9h 30m	17:00	37m	17:38	39m	18:17	39m	18:56	14h 28m	10h 36m				Di, 7. Feb
Mi, 8. Feb		18:58–19:56	57m	AN ₊ bis M ₇		19:56	08:51	05:33	38m	06:12	38m	06:51	37m	07:29	9h 33m	17:02	37m	17:40	39m	18:19	38m	18:58	14h 24m	10h 33m				Mi, 8. Feb
Do, 9. Feb		19:00–21:08	2h 08m	AN ₊ bis M ₇		21:08	09:02	05:31	38m	06:10	38m	06:49	37m	07:27	9h 37m	17:04	37m	17:42	38m	18:21	38m	19:00	14h 20m	10h 30m				Do, 9. Feb
Fr, 10. Feb		19:01–22:21	3h 19m	AN ₊ bis M ₇		22:21	09:13	05:30	38m	06:09	38m	06:47	37m	07:25	9h 40m	17:06	37m	17:43	38m	18:22	38m	19:01	14h 17m	10h 27m				Fr, 10. Feb
Sa, 11. Feb		19:03–23:36	4h 33m	AN ₊ bis M ₇		23:36	09:25	05:28	38m	06:07	38m	06:46	37m	07:23	9h 44m	17:08	37m	17:45	38m	18:24	38m	19:03	14h 13m	10h 23m				Sa, 11. Feb
So, 12. Feb		19:04–00:56*	5h 51m	AN ₊ bis M ₇		—:~	09:38	05:27	38m	06:05	38m	06:44	37m	07:21	9h 48m	17:10	37m	17:47	38m	18:26	38m	19:						

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
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
		Δt			Ph.	\nearrow	\searrow	Astr.	Δt	Naut.	Δt	Bürg.	Δt	\nearrow	Δt	\searrow	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Mo, 20. Feb		19:18–05:10*	9h 52m	AN ₊ bis AN ₋	●	07:43	17:34	05:12	38m	05:51	38m	06:29	36m	07:06	10h 18m	17:24	36m	18:01	38m	18:39	38m	19:18	13h 39m	9h 52m				Mo, 20. Feb
Di, 21. Feb		19:20–05:08*	9h 48m	AN ₊ bis AN ₋		08:00	19:05	05:10	38m	05:49	38m	06:27	36m	07:04	10h 22m	17:26	36m	18:03	38m	18:41	38m	19:20	13h 35m	9h 48m				Di, 21. Feb
Mi, 22. Feb		20:32–05:06*	8h 34m	M _\ bis AN ₋		08:14	20:32	05:08	38m	05:47	38m	06:25	36m	07:02	10h 26m	17:28	36m	18:04	38m	18:43	38m	19:21	13h 31m	9h 45m				Mi, 22. Feb
Do, 23. Feb		21:56–05:04*	7h 08m	M _\ bis AN ₋		08:27	21:56	05:06	38m	05:45	38m	06:23	36m	07:00	10h 30m	17:30	36m	18:06	38m	18:44	38m	19:23	13h 27m	9h 41m				Do, 23. Feb
Fr, 24. Feb		23:19–05:02*	5h 43m	M _\ bis AN ₋		08:41	23:19	05:04	38m	05:43	38m	06:21	36m	06:57	10h 34m	17:32	36m	18:08	38m	18:46	38m	19:25	13h 23m	9h 37m				Fr, 24. Feb
Sa, 25. Feb		00:39*–05:00*	4h 21m	M _\ bis AN ₋		08:56	—:—	05:02	38m	05:41	38m	06:19	36m	06:55	10h 38m	17:33	36m	18:10	38m	18:48	38m	19:27	13h 19m	9h 33m				Sa, 25. Feb
So, 26. Feb		01:57*–04:58*	3h 00m	M _\ bis AN ₋		09:14	00:39	05:00	38m	05:39	38m	06:17	35m	06:53	10h 41m	17:35	36m	18:11	38m	18:49	39m	19:28	13h 15m	9h 29m				So, 26. Feb
Mo, 27. Feb		03:10*–04:56*	1h 46m	M _\ bis AN ₋	◐	09:39	01:57	04:58	38m	05:37	38m	06:15	35m	06:51	10h 45m	17:37	35m	18:13	38m	18:51	39m	19:30	13h 11m	9h 26m				Mo, 27. Feb
Di, 28. Feb		04:13*–04:54*	40m	M _\ bis AN ₋		10:11	03:10	04:56	38m	05:35	38m	06:13	35m	06:49	10h 49m	17:39	35m	18:15	38m	18:53	39m	19:32	13h 08m	9h 22m				Di, 28. Feb
Mi, 1. Mär		—:—:—:—	–	Mond stört		10:55	04:13	04:54	39m	05:33	38m	06:11	35m	06:47	10h 53m	17:41	35m	18:16	38m	18:55	39m	19:34	13h 04m	9h 18m				Mi, 1. Mär
Do, 2. Mär		—:—:—:—	–	Mond stört		11:50	05:04	04:52	39m	05:31	38m	06:09	35m	06:45	10h 57m	17:42	35m	18:18	38m	18:56	39m	19:36	13h 00m	9h 14m				Do, 2. Mär
Fr, 3. Mär		—:—:~:~:~	–	Mond stört		12:55	05:42	04:50	39m	05:29	38m	06:07	35m	06:42	11h 01m	17:44	35m	18:20	38m	18:58	39m	19:37	12h 56m	9h 10m				Fr, 3. Mär
Sa, 4. Mär		—:~:~:~:~	–	Mond stört		14:06	06:10	04:47	39m	05:27	38m	06:05	35m	06:40	11h 05m	17:46	35m	18:22	38m	19:00	39m	19:39	12h 52m	9h 06m				Sa, 4. Mär
So, 5. Mär		—:~:~:~:~	–	Mond stört		15:19	06:31	04:45	39m	05:24	38m	06:02	35m	06:38	11h 09m	17:48	35m	18:23	38m	19:02	39m	19:41	12h 48m	9h 01m				So, 5. Mär
Mo, 6. Mär		—:~:~:~:~	–	Mond stört		16:32	06:47	04:43	39m	05:22	38m	06:00	35m	06:36	11h 13m	17:49	35m	18:25	38m	19:03	39m	19:43	12h 44m	8h 57m				Mo, 6. Mär
Di, 7. Mär		—:~:~:~:~	–	Mond stört	○	17:45	07:00	04:41	39m	05:20	38m	05:58	35m	06:34	11h 17m	17:51	35m	18:27	38m	19:05	39m	19:45	12h 40m	8h 53m				Di, 7. Mär
Mi, 8. Mär		—:~:~:~:~	–	Mond stört		18:57	07:11	04:38	39m	05:18	38m	05:56	35m	06:31	11h 21m	17:53	35m	18:29	38m	19:07	39m	19:46	12h 36m	8h 49m				Mi, 8. Mär
Do, 9. Mär		19:48–20:11	22m	AN ₊ bis M ₇		20:11	07:22	04:36	39m	05:16	38m	05:54	35m	06:29	11h 25m	17:55	35m	18:30	38m	19:09	39m	19:48	12h 32m	8h 45m				Do, 9. Mär
Fr, 10. Mär		19:50–21:26	1h 36m	AN ₊ bis M ₇		21:26	07:33	04:34	39m	05:13	38m	05:51	35m	06:27	11h 29m	17:56	35m	18:32	38m	19:10	39m	19:50	12h 28m	8h 40m				Fr, 10. Mär
Sa, 11. Mär		19:52–22:45	2h 52m	AN ₊ bis M ₇		22:45	07:45	04:31	39m	05:11	38m	05:49	35m	06:25	11h 33m	17:58	35m	18:34	38m	19:12	40m	19:52	12h 24m	8h 36m				Sa, 11. Mär
So, 12. Mär		19:54–00:07*	4h 12m	AN ₊ bis M ₇		—:—	08:01	04:29	39m	05:09	38m	05:47	35m	06:22	11h 37m	18:00	35m	18:35	38m	19:14	40m	19:54	12h 20m	8h 32m				So, 12. Mär
Mo, 13. Mär		19:56–01:30*	5h 33m	AN ₊ bis M ₇		00:07	08:21	04:26	40m	05:06	38m	05:45	35m	06:20	11h 41m	18:02	35m	18:37	38m	19:16	40m	19:56	12h 16m	8h 27m				Mo, 13. Mär
Di, 14. Mär		19:58–02:48*	6h 50m	AN ₊ bis M ₇		01:30	08:51	04:24	40m	05:04	38m	05:42	35m	06:18	11h 45m	18:03	35m	18:39	38m	19:17	40m	19:58	12h 12m	8h 23m				Di, 14. Mär
Mi, 15. Mär		20:00–03:55*	7h 55m	AN ₊ bis M ₇	◑	02:48	09:34	04:21	40m	05:02	38m	05:40	35m	06:16	11h 49m	18:05	35m	18:41	38m	19:19	40m	20:00	12h 08m	8h 19m				Mi, 15. Mär
Do, 16. Mär		20:02–04:16*	8h 14m	AN ₊ bis AN ₋		03:55	10:36	04:19	40m	04:59	38m	05:38	35m	06:13	11h 53m	18:07	35m	18:42	38m	19:21	40m	20:02	12h 04m	8h 14m				Do, 16. Mär
Fr, 17. Mär		20:04–04:14*	8h 10m	AN ₊ bis AN ₋		04:45	11:56	04:16	40m	04:57	38m	05:36	35m	06:11	11h 57m	18:09	35m	18:44	38m	19:23	40m	20:04	12h 00m	8h 10m				Fr, 17. Mär
Sa, 18. Mär		20:06–04:11*	8h 05m	AN ₊ bis AN ₋		05:21	13:26	04:14	40m	04:55	38m	05:33	35m	06:09	12h 01m	18:10	35m	18:46	38m	19:25	41m	20:06	11h 56m	8h 05m				Sa, 18. Mär
So, 19. Mär		20:08–04:09*	8h 00m	AN ₊ bis AN ₋		05:45	14:59	04:11	40m	04:52	38m	05:31	35m	06:06	12h 05m	18:12	35m	18:48	38m	19:27	41m	20:08	11h 52m	8h 00m				So, 19. Mär
Mo, 20. Mär		20:10–04:06*	7h 56m	AN ₊ bis AN ₋		06:03	16:30	04:09	41m	04:50	38m	05:29	35m	06:04	12h 09m	18:14	35m	18:49	38m	19:28	41m	20:10	11h 48m	7h 56m				Mo, 20. Mär
Di, 21. Mär		20:12–04:03*	7h 51m	AN ₊ bis AN ₋	●	06:18	17:59	04:06	41m	04:47	38m	05:26	35m	06:02	12h 13m	18:15	35m	18:51	39m	19:30	41m	20:12	11h 44m	7h 51m				Di, 21. Mär
Mi, 22. Mär		20:14–04:01*	7h 46m	AN ₊ bis AN ₋		06:32	19:25	04:03	41m	04:45	38m	05:24	35m	06:00	12h 17m	18:17	35m	18:53	39m	19:32	41m	20:14	11h 40m	7h 46m				Mi, 22. Mär
Do, 23. Mär		20:50–03:58*	7h 08m	M _\ bis AN ₋		06:45	20:50	04:01	41m	04:43	39m	05:22	35m	05:57	12h 21m	18:19	35m	18:55	39m	19:34	42m	20:16	11h 36m	7h 42m				Do, 23. Mär
Fr, 24. Mär		22:14–03:55*	5h 41m	M _\ bis AN ₋		06:59	22:14	03:58	41m	04:40	39m	05:19	35m	05:55	12h 25m	18:21	35m	18:56	39m	19:36	42m	20:18	11h 32m	7h 37m				Fr, 24. Mär
Sa, 25. Mär		23:36–03:53*	4h 16m	M _\ bis AN ₋		07:16	23:36	03:55	42m	04:38	39m	05:17	35m	05:53	12h 29m	18:22	35m	18:58	39m	19:38	42m	20:20	11h 28m	7h 32m				Sa, 25. Mär
So, 26. Mär	MESZ	01:54*–04:50*	2h 56m	M _\ bis AN ₋		08:38	00:36	04:53	42m	05:35	39m	06:15	35m	06:50	12h 33m	19:24	35m	20:00	39m	20:40	42m	21:22	11h 24m	7h 27m				So, 26. Mär
Mo, 27. Mär	MESZ	03:03*–04:47*	1h 44m	M _\ bis AN ₋		09:07	01:54	04:50	42m	05:33	39m	06:12	35m	06:48	12h 37m	19:26	35m	20:02	39m	20:41	42m	21:24	11h 20m	7h 22m				Mo, 27. Mär
Di, 28. Mär	MESZ	04:00*–04:44*	44m	M _\ bis AN ₋		09:47	03:03	04:47	42m	05:30	39m	06:10	35m	06:46	12h 41m	19:27	36m	20:03	39m	20:43	43m	21:27	11h 16m	7h 17m				Di, 28. Mär
Mi, 29. Mär	MESZ	—:~:~:~:~	–	Mond stört	◒	10:38	04:00	04:44	43m	05:28	39m	06:07	35m	06:43	12h 45m	19:29	36m	20:05	40m	20:45	43m	21:29	11h 12m	7h 12m				Mi, 29. Mär
Do, 30. Mär	MESZ	—:~:~:~:~	–	Mond stört		11:41	04:43	04:42	43m	05:25	40m	06:05	36m	06:41	12h 49m	19:31	36m	20:07	40m	20:47	43m	21:31	11h 08m	7h 07m				Do, 30. Mär
Fr, 31. Mär	MESZ	—:~:~:~:~	–	Mond stört		12:50	05:14	04:39	43m	05:23	40m	06:03	36m	06:39	12h 53m	19:32	36m	20:09	40m	20:49	44m	21:33	11h 04m	7h 02m				Fr, 31. Mär
Sa, 1. Apr	MESZ	—:~:~:~:~	–	Mond stört		14:03	05:37	04:36	44m	05:20	40m	06:00	36m	06:37	12h 57m	19:34	36m	20:11	40m	20:51	44m	21:36	11h 00m	6h 57m				Sa, 1. Apr
So, 2. Apr	MESZ	—:~:~:~:~	–	Mond stört		15:17	05:54	04:33	44m	05:18	40m	05:58	36m	06:34	13h 01m	19:36	36m	20:12	40m	20:53	44m	21:38	10h 56m	6h 52m				So, 2. Apr
Mo, 3. Apr	MESZ	—:~:~:~:~	–	Mond stört		16:30	06:08	04:30	44m	05:15	40m	05:56	36m	06:32	13h 05m	19:38	36m	20:14	40m	20								

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
2023	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023	
	zone		Δt		Ph.	\nearrow	\searrow	Astr.	Δt	Naut.	Δt	Bürg.	Δt	\nearrow	Δt	\searrow	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Di, 11. Apr	MESZ	22:00–02:50*	4h 50m	AN ₊ bis M ₇		01:39	08:31	04:07	47m	04:54	42m	05:37	37m	06:14	13h 37m	19:51	37m	20:29	42m	21:11	48m	22:00	10h 20m	6h 03m				Di, 11. Apr
Mi, 12. Apr	MESZ	22:02–03:45*	5h 42m	AN ₊ bis M ₇		02:50	09:27	04:03	48m	04:52	42m	05:34	37m	06:12	13h 40m	19:53	37m	20:30	42m	21:13	48m	22:02	10h 16m	5h 58m				Mi, 12. Apr
Do, 13. Apr	MESZ	22:05–03:57*	5h 52m	AN ₊ bis AN ₋	☾	03:45	10:40	04:00	48m	04:49	42m	05:32	37m	06:10	13h 44m	19:54	37m	20:32	43m	21:15	49m	22:05	10h 13m	5h 52m				Do, 13. Apr
Fr, 14. Apr	MESZ	22:07–03:54*	5h 46m	AN ₊ bis AN ₋		04:23	12:05	03:57	49m	04:47	43m	05:30	37m	06:07	13h 48m	19:56	37m	20:34	43m	21:18	49m	22:07	10h 09m	5h 46m				Fr, 14. Apr
Sa, 15. Apr	MESZ	22:10–03:51*	5h 40m	AN ₊ bis AN ₋		04:50	13:35	03:54	49m	04:44	43m	05:27	37m	06:05	13h 52m	19:58	38m	20:36	43m	21:20	50m	22:10	10h 05m	5h 40m				Sa, 15. Apr
So, 16. Apr	MESZ	22:13–03:48*	5h 34m	AN ₊ bis AN ₋		05:09	15:05	03:51	50m	04:41	43m	05:25	38m	06:03	13h 56m	20:00	38m	20:38	44m	21:22	51m	22:13	10h 01m	5h 34m				So, 16. Apr
Mo, 17. Apr	MESZ	22:16–03:45*	5h 28m	AN ₊ bis AN ₋		05:25	16:32	03:48	51m	04:39	44m	05:23	38m	06:01	14h 00m	20:01	38m	20:40	44m	21:24	51m	22:16	9h 57m	5h 28m				Mo, 17. Apr
Di, 18. Apr	MESZ	22:18–03:41*	5h 22m	AN ₊ bis AN ₋		05:38	17:57	03:45	51m	04:36	44m	05:20	38m	05:59	14h 04m	20:03	38m	20:42	44m	21:26	52m	22:18	9h 53m	5h 22m				Di, 18. Apr
Mi, 19. Apr	MESZ	22:21–03:38*	5h 16m	AN ₊ bis AN ₋		05:50	19:21	03:41	52m	04:34	44m	05:18	38m	05:57	14h 07m	20:05	38m	20:43	44m	21:28	52m	22:21	9h 49m	5h 16m				Mi, 19. Apr
Do, 20. Apr	MESZ	22:24–03:35*	5h 10m	AN ₊ bis AN ₋	☀	06:04	20:46	03:38	52m	04:31	44m	05:16	38m	05:55	14h 11m	20:06	38m	20:45	45m	21:31	53m	22:24	9h 46m	5h 10m				Do, 20. Apr
Fr, 21. Apr	MESZ	22:27–03:31*	5h 04m	AN ₊ bis AN ₋		06:19	22:09	03:35	53m	04:28	45m	05:14	38m	05:52	14h 15m	20:08	39m	20:47	45m	21:33	54m	22:27	9h 42m	5h 04m				Fr, 21. Apr
Sa, 22. Apr	MESZ	23:31–03:28*	3h 57m	M ₇ bis AN ₋		06:38	23:31	03:31	54m	04:26	45m	05:11	39m	05:50	14h 19m	20:10	39m	20:49	45m	21:35	55m	22:30	9h 38m	4h 57m				Sa, 22. Apr
So, 23. Apr	MESZ	00:46*–03:25*	2h 38m	M ₇ bis AN ₋		07:04	—:—	03:28	55m	04:23	45m	05:09	39m	05:48	14h 23m	20:11	39m	20:51	46m	21:37	55m	22:33	9h 34m	4h 51m				So, 23. Apr
Mo, 24. Apr	MESZ	01:50*–03:21*	1h 31m	M ₇ bis AN ₋		07:39	00:46	03:25	55m	04:20	46m	05:07	39m	05:46	14h 26m	20:13	39m	20:53	46m	21:39	56m	22:36	9h 31m	4h 45m				Mo, 24. Apr
Di, 25. Apr	MESZ	02:39*–03:18*	38m	M ₇ bis AN ₋		08:27	01:50	03:21	56m	04:18	46m	05:05	39m	05:44	14h 30m	20:15	39m	20:55	47m	21:42	57m	22:39	9h 27m	4h 38m				Di, 25. Apr
Mi, 26. Apr	MESZ	—:—:—:—	–	Mond stört		09:26	02:39	03:18	57m	04:15	47m	05:02	39m	05:42	14h 34m	20:16	40m	20:57	47m	21:44	58m	22:42	9h 23m	4h 31m				Mi, 26. Apr
Do, 27. Apr	MESZ	—:—:—:—	–	Mond stört	☾	10:33	03:15	03:14	58m	04:13	47m	05:00	40m	05:40	14h 37m	20:18	40m	20:58	47m	21:46	59m	22:46	9h 20m	4h 24m				Do, 27. Apr
Fr, 28. Apr	MESZ	—:—:—:—	–	Mond stört		11:46	03:41	03:11	59m	04:10	47m	04:58	40m	05:38	14h 41m	20:20	40m	21:00	48m	21:49	1h 00m	22:49	9h 16m	4h 18m				Fr, 28. Apr
Sa, 29. Apr	MESZ	—:~:~:~:~	–	Mond stört		12:59	04:00	03:07	1h 00m	04:07	48m	04:56	40m	05:36	14h 45m	20:21	40m	21:02	48m	21:51	1h 01m	22:52	9h 12m	4h 11m				Sa, 29. Apr
So, 30. Apr	MESZ	—:~:~:~:~	–	Mond stört		14:12	04:15	03:03	1h 01m	04:05	48m	04:54	40m	05:34	14h 48m	20:23	40m	21:04	49m	21:53	1h 02m	22:56	9h 09m	4h 03m				So, 30. Apr
Mo, 1. Mai	MESZ	—:~:~:~:~	–	Mond stört		15:24	04:27	03:00	1h 02m	04:02	49m	04:51	40m	05:32	14h 52m	20:25	41m	21:06	49m	21:56	1h 03m	22:59	9h 05m	3h 56m				Mo, 1. Mai
Di, 2. Mai	MESZ	—:~:~:~:~	–	Mond stört		16:37	04:38	02:56	1h 03m	04:00	49m	04:49	41m	05:31	14h 55m	20:26	41m	21:08	50m	21:58	1h 05m	23:03	9h 02m	3h 49m				Di, 2. Mai
Mi, 3. Mai	MESZ	—:~:~:~:~	–	Mond stört		17:52	04:49	02:52	1h 04m	03:57	50m	04:47	41m	05:29	14h 59m	20:28	41m	21:10	50m	22:00	1h 06m	23:07	8h 58m	3h 41m				Mi, 3. Mai
Do, 4. Mai	MESZ	—:~:~:~:~	–	Mond stört		19:11	05:00	02:48	1h 06m	03:55	50m	04:45	41m	05:27	15h 02m	20:30	41m	21:12	51m	22:03	1h 07m	23:10	8h 55m	3h 34m				Do, 4. Mai
Fr, 5. Mai	MESZ	—:~:~:~:~	–	Mond stört	☽	20:33	05:13	02:44	1h 07m	03:52	51m	04:43	41m	05:25	15h 06m	20:31	42m	21:14	51m	22:05	1h 09m	23:14	8h 51m	3h 26m				Fr, 5. Mai
Sa, 6. Mai	MESZ	—:~:~:~:~	–	Mond stört		21:59	05:30	02:40	1h 09m	03:50	51m	04:41	42m	05:23	15h 09m	20:33	42m	21:15	52m	22:07	1h 10m	23:18	8h 48m	3h 18m				Sa, 6. Mai
So, 7. Mai	MESZ	23:22–23:24	1m	AN ₊ bis M ₇		23:24	05:54	02:36	1h 10m	03:47	52m	04:39	42m	05:21	15h 13m	20:35	42m	21:17	52m	22:10	1h 12m	23:22	8h 45m	3h 09m				So, 7. Mai
Mo, 8. Mai	MESZ	23:27–00:41*	1h 14m	AN ₊ bis M ₇		—:—	06:29	02:32	1h 12m	03:45	52m	04:37	42m	05:20	15h 16m	20:36	42m	21:19	53m	22:12	1h 14m	23:27	8h 41m	3h 01m				Mo, 8. Mai
Di, 9. Mai	MESZ	23:31–01:42*	2h 11m	AN ₊ bis M ₇		00:41	07:19	02:28	1h 14m	03:42	53m	04:35	42m	05:18	15h 19m	20:38	43m	21:21	53m	22:15	1h 16m	23:31	8h 38m	2h 52m				Di, 9. Mai
Mi, 10. Mai	MESZ	23:35–02:19*	2h 43m	AN ₊ bis AN ₋		01:42	08:29	02:23	1h 16m	03:40	53m	04:33	43m	05:16	15h 23m	20:39	43m	21:23	54m	22:17	1h 18m	23:35	8h 35m	2h 43m				Mi, 10. Mai
Do, 11. Mai	MESZ	23:40–02:14*	2h 33m	AN ₊ bis AN ₋		02:26	09:52	02:19	1h 18m	03:37	54m	04:31	43m	05:15	15h 26m	20:41	43m	21:25	54m	22:19	1h 20m	23:40	8h 32m	2h 33m				Do, 11. Mai
Fr, 12. Mai	MESZ	23:45–02:09*	2h 23m	AN ₊ bis AN ₋	☾	02:55	11:21	02:14	1h 20m	03:35	54m	04:29	43m	05:13	15h 29m	20:43	43m	21:27	55m	22:22	1h 23m	23:45	8h 28m	2h 23m				Fr, 12. Mai
Sa, 13. Mai	MESZ	23:50–02:04*	2h 13m	AN ₊ bis AN ₋		03:16	12:49	02:09	1h 23m	03:32	55m	04:27	43m	05:11	15h 32m	20:44	44m	21:28	55m	22:24	1h 26m	23:50	8h 25m	2h 13m				Sa, 13. Mai
So, 14. Mai	MESZ	23:56–01:58*	2h 02m	AN ₊ bis AN ₋		03:32	14:15	02:04	1h 26m	03:30	55m	04:26	44m	05:10	15h 35m	20:46	44m	21:30	56m	22:27	1h 29m	23:56	8h 22m	2h 02m				So, 14. Mai
Mo, 15. Mai	MESZ	00:02*–01:52*	1h 49m	AN ₊ bis AN ₋		03:46	15:39	01:58	1h 29m	03:27	56m	04:24	44m	05:08	15h 38m	20:47	44m	21:32	57m	22:29	1h 32m	00:02*	8h 19m	1h 49m				Mo, 15. Mai
Di, 16. Mai	MESZ	00:09*–01:45*	1h 36m	AN ₊ bis AN ₋		03:58	17:01	01:52	1h 32m	03:25	57m	04:22	44m	05:07	15h 41m	20:49	45m	21:34	57m	22:32	1h 37m	00:09*	8h 16m	1h 36m				Di, 16. Mai
Mi, 17. Mai	MESZ	00:16*–01:38*	1h 21m	AN ₊ bis AN ₋		04:10	18:23	01:45	1h 37m	03:23	57m	04:20	45m	05:05	15h 44m	20:50	45m	21:36	58m	22:34	1h 42m	00:16*	8h 13m	1h 21m				Mi, 17. Mai
Do, 18. Mai	MESZ	00:25*–01:29*	1h 03m	AN ₊ bis AN ₋		04:24	19:46	01:38	1h 42m	03:20	58m	04:19	45m	05:04	15h 47m	20:52	45m	21:37	59m	22:36	1h 48m	00:25*	8h 10m	1h 03m				Do, 18. Mai
Fr, 19. Mai	MESZ	00:38*–01:16*	38m	AN ₊ bis AN ₋	☀	04:42	21:08	01:29	1h 48m	03:18	59m	04:17	45m	05:03	15h 50m	20:53	45m	21:39	59m	22:39	1h 59m	00:38*	8h 08m	38m				Fr, 19. Mai
Sa, 20. Mai	MESZ			Astr. MD		05:04	22:26	01:16	1h 59m	03:16	59m	04:15	45m	05:01	15h 53m	20:55	46m	21:41	1h 00m	22:41	—:—	8h 05m			22:41–03:13*	4h 32m	ND ₊ bis ND ₋	Sa, 20. Mai
So, 21. Mai	MESZ			Astr. MD		05:35	23:36	—:—		03:13	1h 00m	04:14	46m	05:00	15h 56m	20:56	46m	21:42	1h 01m	22:44	—:—	8h 02m			23:36–03:11*	3h 35m	M ₇ bis ND ₋	So, 21. Mai
Mo, 22. Mai	MESZ			Astr. MD		06:17	—:—	—:—		03:11	1h 01m	04:12	46m	04:59	15h 58m	20:57	46m	21:44	1h 01m	22:46	—:—	7h 59m			00:32*–03:09*	2h 37m	M	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
2023	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023	
	zone		Δt		Ph.	\nearrow	\searrow	Astr.	Δt	Naut.	Δt	Bürg.	Δt	\nearrow	Δt	\searrow	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Mi, 31. Mai	MESZ			Astr. MD		16:47	03:06	—:—		02:53	1h 07m	04:00	48m	04:49	16h 19m	21:09	49m	21:58	1h 08m	23:06		—:—	7h 39m		—:—:—:—:—	—	Mond stört	Mi, 31. Mai
Do, 1. Jun	MESZ			Astr. MD		18:07	03:19	—:—		02:51	1h 08m	03:59	49m	04:48	16h 21m	21:10	49m	21:59	1h 08m	23:08		—:—	7h 37m		—:—:—:—:—	—	Mond stört	Do, 1. Jun
Fr, 2. Jun	MESZ			Astr. MD		19:32	03:34	—:—		02:49	1h 08m	03:58	49m	04:47	16h 23m	21:11	49m	22:01	1h 09m	23:10		—:—	7h 35m		—:—:—:—:—	—	Mond stört	Fr, 2. Jun
Sa, 3. Jun	MESZ			Astr. MD		20:59	03:54	—:—		02:48	1h 09m	03:57	49m	04:47	16h 25m	21:12	49m	22:02	1h 10m	23:12		—:—	7h 33m		—:—:—:—:—	—	Mond stört	Sa, 3. Jun
So, 4. Jun	MESZ			Astr. MD	○	22:22	04:24	—:—		02:46	1h 10m	03:56	49m	04:46	16h 27m	21:13	49m	22:03	1h 10m	23:14		—:—	7h 32m		—:—:—:—:—	—	Mond stört	So, 4. Jun
Mo, 5. Jun	MESZ			Astr. MD		23:32	05:09	—:—		02:45	1h 10m	03:55	49m	04:45	16h 28m	21:14	50m	22:04	1h 11m	23:16		—:—	7h 30m		23:16 – 23:32	16m	ND ₊ bis M ₇	Mo, 5. Jun
Di, 6. Jun	MESZ			Astr. MD		—:—	06:13	—:—		02:43	1h 11m	03:54	50m	04:45	16h 30m	21:15	50m	22:05	1h 12m	23:17		—:—	7h 29m		23:17 – 00:23*	1h 06m	ND ₊ bis M ₇	Di, 6. Jun
Mi, 7. Jun	MESZ			Astr. MD		00:23	07:35	—:—		02:42	1h 12m	03:54	50m	04:44	16h 31m	21:16	50m	22:06	1h 12m	23:19		—:—	7h 27m		23:19 – 00:58*	1h 39m	ND ₊ bis M ₇	Mi, 7. Jun
Do, 8. Jun	MESZ			Astr. MD		00:58	09:05	—:—		02:40	1h 12m	03:53	50m	04:44	16h 33m	21:17	50m	22:07	1h 13m	23:21		—:—	7h 26m		23:21 – 01:22*	2h 01m	ND ₊ bis M ₇	Do, 8. Jun
Fr, 9. Jun	MESZ			Astr. MD		01:22	10:36	—:—		02:39	1h 13m	03:52	50m	04:43	16h 34m	21:18	50m	22:08	1h 13m	23:22		—:—	7h 25m		23:22 – 01:40*	2h 17m	ND ₊ bis M ₇	Fr, 9. Jun
Sa, 10. Jun	MESZ			Astr. MD	◐	01:40	12:03	—:—		02:38	1h 13m	03:52	50m	04:43	16h 35m	21:18	51m	22:09	1h 14m	23:24		—:—	7h 24m		23:24 – 01:54*	2h 29m	ND ₊ bis M ₇	Sa, 10. Jun
So, 11. Jun	MESZ			Astr. MD		01:54	13:27	—:—		02:37	1h 14m	03:51	51m	04:42	16h 36m	21:19	51m	22:10	1h 14m	23:25		—:—	7h 22m		23:25 – 02:06*	2h 41m	ND ₊ bis M ₇	So, 11. Jun
Mo, 12. Jun	MESZ			Astr. MD		02:06	14:49	—:—		02:36	1h 14m	03:51	51m	04:42	16h 37m	21:20	51m	22:11	1h 15m	23:26		—:—	7h 22m		23:26 – 02:18*	2h 51m	ND ₊ bis M ₇	Mo, 12. Jun
Di, 13. Jun	MESZ			Astr. MD		02:18	16:10	—:—		02:35	1h 15m	03:51	51m	04:42	16h 38m	21:20	51m	22:12	1h 15m	23:27		—:—	7h 21m		23:27 – 02:31*	3h 04m	ND ₊ bis M ₇	Di, 13. Jun
Mi, 14. Jun	MESZ			Astr. MD		02:31	17:31	—:—		02:35	1h 15m	03:50	51m	04:42	16h 39m	21:21	51m	22:12	1h 15m	23:28		—:—	7h 20m		23:28 – 02:34*	3h 05m	ND ₊ bis ND ₋	Mi, 14. Jun
Do, 15. Jun	MESZ			Astr. MD		02:47	18:51	—:—		02:34	1h 15m	03:50	51m	04:41	16h 40m	21:21	51m	22:13	1h 16m	23:29		—:—	7h 19m		23:29 – 02:34*	3h 04m	ND ₊ bis ND ₋	Do, 15. Jun
Fr, 16. Jun	MESZ			Astr. MD		03:07	20:10	—:—		02:34	1h 16m	03:50	51m	04:41	16h 40m	21:22	51m	22:14	1h 16m	23:30		—:—	7h 19m		23:30 – 02:33*	3h 02m	ND ₊ bis ND ₋	Fr, 16. Jun
Sa, 17. Jun	MESZ			Astr. MD		03:35	21:22	—:—		02:33	1h 16m	03:50	51m	04:41	16h 41m	21:22	51m	22:14	1h 16m	23:31		—:—	7h 18m		23:31 – 02:33*	3h 01m	ND ₊ bis ND ₋	Sa, 17. Jun
So, 18. Jun	MESZ			Astr. MD	◑	04:12	22:23	—:—		02:33	1h 16m	03:50	51m	04:41	16h 41m	21:23	51m	22:15	1h 16m	23:32		—:—	7h 18m		23:32 – 02:33*	3h 01m	ND ₊ bis ND ₋	So, 18. Jun
Mo, 19. Jun	MESZ			Astr. MD		05:02	23:10	—:—		02:33	1h 16m	03:50	51m	04:41	16h 41m	21:23	51m	22:15	1h 17m	23:32		—:—	7h 18m		23:32 – 02:33*	3h 00m	ND ₊ bis ND ₋	Mo, 19. Jun
Di, 20. Jun	MESZ			Astr. MD		06:04	23:44	—:—		02:33	1h 17m	03:50	51m	04:42	16h 41m	21:23	51m	22:15	1h 17m	23:32		—:—	7h 18m		23:44 – 02:33*	2h 48m	M _v bis ND ₋	Di, 20. Jun
Mi, 21. Jun	MESZ			Astr. MD		07:14	—:—	—:—		02:33	1h 17m	03:50	51m	04:42	16h 41m	21:24	51m	22:15	1h 17m	23:33		—:—	7h 18m		00:08* – 02:33*	2h 24m	M _v bis ND ₋	Mi, 21. Jun
Do, 22. Jun	MESZ			Astr. MD		08:26	00:08	—:—		02:33	1h 17m	03:50	51m	04:42	16h 41m	21:24	51m	22:16	1h 17m	23:33		—:—	7h 18m		00:26* – 02:33*	2h 07m	M _v bis ND ₋	Do, 22. Jun
Fr, 23. Jun	MESZ			Astr. MD		09:39	00:26	—:—		02:33	1h 17m	03:50	51m	04:42	16h 41m	21:24	51m	22:16	1h 16m	23:33		—:—	7h 18m		00:40* – 02:34*	1h 53m	M _v bis ND ₋	Fr, 23. Jun
Sa, 24. Jun	MESZ			Astr. MD		10:51	00:40	—:—		02:34	1h 16m	03:51	51m	04:42	16h 41m	21:24	51m	22:16	1h 16m	23:33		—:—	7h 18m		00:52* – 02:34*	1h 42m	M _v bis ND ₋	Sa, 24. Jun
So, 25. Jun	MESZ			Astr. MD		12:01	00:52	—:—		02:34	1h 16m	03:51	51m	04:43	16h 41m	21:24	51m	22:16	1h 16m	23:32		—:—	7h 19m		01:02* – 02:35*	1h 32m	M _v bis ND ₋	So, 25. Jun
Mo, 26. Jun	MESZ			Astr. MD	◒	13:12	01:02	—:—		02:35	1h 16m	03:52	51m	04:43	16h 40m	21:24	51m	22:16	1h 16m	23:32		—:—	7h 19m		01:13* – 02:36*	1h 23m	M _v bis ND ₋	Mo, 26. Jun
Di, 27. Jun	MESZ			Astr. MD		14:25	01:13	—:—		02:36	1h 16m	03:52	51m	04:44	16h 40m	21:24	51m	22:15	1h 16m	23:32		—:—	7h 20m		01:24* – 02:37*	1h 12m	M _v bis ND ₋	Di, 27. Jun
Mi, 28. Jun	MESZ			Astr. MD		15:42	01:24	—:—		02:37	1h 16m	03:53	51m	04:44	16h 39m	21:24	51m	22:15	1h 15m	23:31		—:—	7h 20m		01:37* – 02:38*	1h 00m	M _v bis ND ₋	Mi, 28. Jun
Do, 29. Jun	MESZ			Astr. MD		17:03	01:37	—:—		02:38	1h 15m	03:53	51m	04:45	16h 38m	21:24	51m	22:15	1h 15m	23:30		—:—	7h 21m		01:55* – 02:39*	44m	M _v bis ND ₋	Do, 29. Jun
Fr, 30. Jun	MESZ			Astr. MD		18:29	01:55	—:—		02:39	1h 15m	03:54	51m	04:45	16h 37m	21:23	51m	22:15	1h 14m	23:30		—:—	7h 22m		02:19* – 02:40*	20m	M _v bis ND ₋	Fr, 30. Jun
Sa, 1. Jul	MESZ			Astr. MD		19:55	02:19	—:—		02:40	1h 14m	03:55	51m	04:46	16h 37m	21:23	51m	22:14	1h 14m	23:29		—:—	7h 23m		—:—:—:—:—	—	Mond stört	Sa, 1. Jul
So, 2. Jul	MESZ			Astr. MD		21:13	02:57	—:—		02:41	1h 14m	03:56	51m	04:47	16h 36m	21:23	50m	22:14	1h 13m	23:28		—:—	7h 24m		—:—:—:—:—	—	Mond stört	So, 2. Jul
Mo, 3. Jul	MESZ			Astr. MD	○	22:14	03:52	—:—		02:43	1h 13m	03:57	50m	04:48	16h 34m	21:22	50m	22:13	1h 13m	23:27		—:—	7h 25m		—:—:—:—:—	—	Mond stört	Mo, 3. Jul
Di, 4. Jul	MESZ			Astr. MD		22:56	05:08	—:—		02:44	1h 13m	03:58	50m	04:48	16h 33m	21:22	50m	22:13	1h 12m	23:25		—:—	7h 27m		—:—:—:—:—	—	Mond stört	Di, 4. Jul
Mi, 5. Jul	MESZ			Astr. MD		23:24	06:39	—:—		02:46	1h 12m	03:59	50m	04:49	16h 32m	21:21	50m	22:12	1h 12m	23:24		—:—	7h 28m		23:24 – 23:24	0m	ND ₊ bis M ₇	Mi, 5. Jul
Do, 6. Jul	MESZ			Astr. MD		23:45	08:13	—:—		02:47	1h 12m	04:00	50m	04:50	16h 30m	21:21	50m	22:11	1h 11m	23:23		—:—	7h 29m		23:23 – 23:45	21m	ND ₊ bis M ₇	Do, 6. Jul
Fr, 7. Jul	MESZ			Astr. MD		—:—	09:45	—:—		02:49	1h 11m	04:01	50m	04:51	16h 29m	21:20	50m	22:10	1h 10m	23:21		—:—	7h 31m		23:21 – 00:00*	38m	ND ₊ bis M ₇	Fr, 7. Jul
Sa, 8. Jul	MESZ			Astr. MD		00:00	11:13	—:—		02:51	1h 10m	04:02	50m	04:52	16h 27m	21:20	49m	22:09	1h 10m	23:20		—:—	7h 33m		23:20 – 00:13*	53m	ND ₊ bis M ₇	Sa, 8. Jul
So, 9. Jul	MESZ			Astr. MD		00:13	12:37	—:—		02:53	1h 10m	04:03	49m	04:53	16h 26m	21:19	49m	22:09	1h 09m	23:18		—:—	7h 34m		23:18 – 00:26*	1h 07m	ND ₊ bis M ₇	So, 9. Jul
Mo, 10. Jul	MESZ			Astr. MD	◑	00:26	13:59	—:—		02:55	1h 09m	04:04	49m	04:54	16h 24m	21:18	49m	22:08	1h 08m	23:17		—:—	7h 36m		23:17 – 00:39*	1h 22m	ND ₊ bis M ₇	Mo, 10. Jul
Di, 11. Jul	MESZ			Astr. MD		00:39	15:20	—:—		02:56	1h 08m	04:05	49m	04:55	16h 22m	21:17	49m	22:07	1h 08m	23:15		—:—	7h 38m		23:15 – 00:53*	1h 38m	ND ₊ bis M ₇	Di, 11. Jul
Mi, 12. Jul	MESZ			Astr. MD		00:53	16:40	—:—		02:58	1h 08m	04:07	49m	04:56	16h 20m	21:17	48m	22:05	1h 07m	23:13		—:—	7h 40m		23:13 – 01:12*	1h 59m	ND ₊ bis M ₇	Mi, 12. Jul
Do, 13. Jul	MESZ			Astr. MD		01:12	17:59	—:—		03:01	1h 07m	04:08	48m	04:57	16h 18m	21:16</												

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
2023	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
	zone		Δt		Ph.	\nearrow	\searrow	Astr.	Δt	Naut.	Δt	Bürg.	Δt	\nearrow	Δt	\searrow	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Do, 20. Jul	MESZ			Astr. MD		07:27	22:47	—:—		03:16	1h 02m	04:19	47m	05:06	16h 02m	21:08	46m	21:55	1h 02m	22:57		—:—	7h 58m		22:57 – 03:18*	4h 21m	ND ₊ bis ND ₋	Do, 20. Jul
Fr, 21. Jul	MESZ			Astr. MD		08:39	22:59	—:—		03:18	1h 02m	04:20	46m	05:07	15h 59m	21:07	46m	21:53	1h 01m	22:55		—:—	8h 01m		22:59 – 03:20*	4h 21m	M _\ bis ND ₋	Fr, 21. Jul
Sa, 22. Jul	MESZ			Astr. MD		09:49	23:09	—:—		03:20	1h 01m	04:22	46m	05:08	15h 57m	21:06	46m	21:52	1h 00m	22:53		—:—	8h 04m		23:09 – 03:23*	4h 13m	M _\ bis ND ₋	Sa, 22. Jul
So, 23. Jul	MESZ	00:59* – 01:17*	18m	AN ₊ bis AN ₋		10:59	23:19	—:—		03:23	1h 00m	04:23	46m	05:10	15h 54m	21:04	46m	21:50	59m	22:50	2h 08m	00:59*	8h 06m	18m				So, 23. Jul
Mo, 24. Jul	MESZ	00:41* – 01:34*	53m	AN ₊ bis AN ₋		12:10	23:30	01:17	2h 08m	03:25	1h 00m	04:25	46m	05:11	15h 51m	21:03	45m	21:49	59m	22:48	1h 53m	00:41*	8h 09m	53m				Mo, 24. Jul
Di, 25. Jul	MESZ	00:31* – 01:44*	1h 13m	AN ₊ bis AN ₋		13:24	23:42	01:34	1h 53m	03:27	59m	04:27	45m	05:12	15h 49m	21:02	45m	21:47	58m	22:46	1h 45m	00:31*	8h 12m	1h 13m				Di, 25. Jul
Mi, 26. Jul	MESZ	00:23* – 01:53*	1h 29m	AN ₊ bis AN ₋	☾	14:41	23:57	01:44	1h 45m	03:30	58m	04:28	45m	05:14	15h 46m	21:00	45m	21:45	58m	22:43	1h 39m	00:23*	8h 15m	1h 29m				Mi, 26. Jul
Do, 27. Jul	MESZ	00:17* – 02:00*	1h 42m	M _\ bis AN ₋		16:03	—:—	01:53	1h 39m	03:32	58m	04:30	45m	05:15	15h 43m	20:59	44m	21:44	57m	22:41	1h 34m	00:16*	8h 18m	1h 43m				Do, 27. Jul
Fr, 28. Jul	MESZ	00:47* – 02:06*	1h 18m	M _\ bis AN ₋		17:27	00:17	02:00	1h 34m	03:34	57m	04:32	44m	05:17	15h 40m	20:57	44m	21:42	56m	22:39	1h 31m	00:10*	8h 21m	1h 56m				Fr, 28. Jul
Sa, 29. Jul	MESZ	01:32* – 02:11*	39m	M _\ bis AN ₋		18:48	00:47	02:06	1h 31m	03:37	56m	04:34	44m	05:18	15h 37m	20:56	44m	21:40	56m	22:36	1h 27m	00:04*	8h 24m	2h 07m				Sa, 29. Jul
So, 30. Jul	MESZ	—:—:—:—:—	–	Mond stört		19:57	01:32	02:11	1h 27m	03:39	56m	04:35	44m	05:20	15h 34m	20:54	44m	21:38	55m	22:34	1h 24m	23:58	8h 27m	2h 18m				So, 30. Jul
Mo, 31. Jul	MESZ	—:—:—:—:—	–	Mond stört		20:48	02:38	02:17	1h 24m	03:42	55m	04:37	44m	05:21	15h 31m	20:52	43m	21:36	55m	22:31	1h 22m	23:53	8h 30m	2h 28m				Mo, 31. Jul
Di, 1. Aug	MESZ	—:—:—:—:—	–	Mond stört	☾	21:23	04:03	02:22	1h 22m	03:44	55m	04:39	43m	05:23	15h 28m	20:51	43m	21:34	54m	22:29	1h 19m	23:48	8h 33m	2h 38m				Di, 1. Aug
Mi, 2. Aug	MESZ	—:—:~:~:~	–	Mond stört		21:47	05:38	02:27	1h 19m	03:46	54m	04:41	43m	05:24	15h 24m	20:49	43m	21:32	53m	22:26	1h 17m	23:44	8h 36m	2h 47m				Mi, 2. Aug
Do, 3. Aug	MESZ	—:~:~:~:~	–	Mond stört		22:05	07:15	02:31	1h 17m	03:49	53m	04:42	43m	05:26	15h 21m	20:47	43m	21:31	53m	22:24	1h 15m	23:39	8h 39m	2h 56m				Do, 3. Aug
Fr, 4. Aug	MESZ	—:~:~:~:~	–	Mond stört		22:19	08:48	02:36	1h 15m	03:51	53m	04:44	43m	05:27	15h 18m	20:46	42m	21:29	52m	22:21	1h 13m	23:35	8h 43m	3h 04m				Fr, 4. Aug
Sa, 5. Aug	MESZ	—:~:~:~:~	–	Mond stört		22:32	10:16	02:40	1h 13m	03:53	52m	04:46	42m	05:29	15h 15m	20:44	42m	21:27	52m	22:19	1h 11m	23:31	8h 46m	3h 13m				Sa, 5. Aug
So, 6. Aug	MESZ	—:~:~:~:~	–	Mond stört		22:45	11:42	02:44	1h 11m	03:56	52m	04:48	42m	05:30	15h 11m	20:42	42m	21:24	51m	22:16	1h 10m	23:26	8h 49m	3h 21m				So, 6. Aug
Mo, 7. Aug	MESZ	—:~:~:~:~	–	Mond stört		22:59	13:06	02:48	1h 10m	03:58	51m	04:50	42m	05:32	15h 08m	20:40	42m	21:22	51m	22:14	1h 08m	23:22	8h 53m	3h 29m				Mo, 7. Aug
Di, 8. Aug	MESZ	—:~:~:~:~	–	Mond stört	☾	23:16	14:28	02:52	1h 08m	04:00	51m	04:52	42m	05:34	15h 04m	20:39	41m	21:20	50m	22:11	1h 07m	23:18	8h 56m	3h 36m				Di, 8. Aug
Mi, 9. Aug	MESZ	23:14 – 23:39	24m	AN ₊ bis M _\		23:39	15:49	02:55	1h 07m	04:02	50m	04:53	41m	05:35	15h 01m	20:37	41m	21:18	50m	22:09	1h 05m	23:14	9h 00m	3h 44m				Mi, 9. Aug
Do, 10. Aug	MESZ	23:11 – 00:10*	59m	AN ₊ bis M _\		—:—	17:05	02:59	1h 05m	04:05	50m	04:55	41m	05:37	14h 58m	20:35	41m	21:16	49m	22:06	1h 04m	23:11	9h 03m	3h 51m				Do, 10. Aug
Fr, 11. Aug	MESZ	23:07 – 00:52*	1h 45m	AN ₊ bis M _\		00:10	18:13	03:03	1h 04m	04:07	49m	04:57	41m	05:38	14h 54m	20:33	41m	21:14	49m	22:03	1h 03m	23:07	9h 07m	3h 59m				Fr, 11. Aug
Sa, 12. Aug	MESZ	23:03 – 01:47*	2h 43m	AN ₊ bis M _\		00:52	19:07	03:06	1h 03m	04:09	49m	04:59	41m	05:40	14h 51m	20:31	40m	21:12	48m	22:01	1h 02m	23:03	9h 10m	4h 06m				Sa, 12. Aug
So, 13. Aug	MESZ	22:59 – 02:52*	3h 52m	AN ₊ bis M _\		01:47	19:48	03:09	1h 02m	04:12	49m	05:01	40m	05:42	14h 47m	20:29	40m	21:10	48m	21:58	1h 01m	22:59	9h 14m	4h 13m				So, 13. Aug
Mo, 14. Aug	MESZ	22:56 – 03:16*	4h 20m	AN ₊ bis AN ₋		02:52	20:17	03:13	1h 01m	04:14	48m	05:02	40m	05:43	14h 43m	20:27	40m	21:08	48m	21:56	1h 00m	22:56	9h 17m	4h 20m				Mo, 14. Aug
Di, 15. Aug	MESZ	22:52 – 03:19*	4h 27m	AN ₊ bis AN ₋		04:03	20:38	03:16	1h 00m	04:16	48m	05:04	40m	05:45	14h 40m	20:25	40m	21:05	47m	21:53	59m	22:52	9h 21m	4h 27m				Di, 15. Aug
Mi, 16. Aug	MESZ	22:49 – 03:22*	4h 33m	AN ₊ bis AN ₋	☾	05:16	20:54	03:19	59m	04:18	47m	05:06	40m	05:46	14h 36m	20:23	40m	21:03	47m	21:50	58m	22:49	9h 24m	4h 33m				Mi, 16. Aug
Do, 17. Aug	MESZ	22:45 – 03:25*	4h 40m	AN ₊ bis AN ₋		06:28	21:07	03:22	58m	04:21	47m	05:08	40m	05:48	14h 33m	20:21	39m	21:01	46m	21:48	57m	22:45	9h 28m	4h 40m				Do, 17. Aug
Fr, 18. Aug	MESZ	22:42 – 03:28*	4h 46m	AN ₊ bis AN ₋		07:40	21:18	03:25	57m	04:23	46m	05:10	39m	05:50	14h 29m	20:19	39m	20:59	46m	21:45	56m	22:42	9h 32m	4h 46m				Fr, 18. Aug
Sa, 19. Aug	MESZ	22:38 – 03:31*	4h 53m	AN ₊ bis AN ₋		08:50	21:28	03:28	56m	04:25	46m	05:12	39m	05:51	14h 25m	20:17	39m	20:56	46m	21:43	55m	22:38	9h 35m	4h 53m				Sa, 19. Aug
So, 20. Aug	MESZ	22:35 – 03:34*	4h 59m	AN ₊ bis AN ₋		10:00	21:38	03:31	55m	04:27	46m	05:13	39m	05:53	14h 22m	20:15	39m	20:54	45m	21:40	54m	22:35	9h 39m	4h 59m				So, 20. Aug
Mo, 21. Aug	MESZ	22:31 – 03:37*	5h 05m	AN ₊ bis AN ₋		11:12	21:49	03:34	54m	04:29	45m	05:15	39m	05:54	14h 18m	20:13	39m	20:52	45m	21:37	54m	22:31	9h 43m	5h 05m				Mo, 21. Aug
Di, 22. Aug	MESZ	22:28 – 03:40*	5h 11m	AN ₊ bis AN ₋		12:27	22:02	03:37	54m	04:31	45m	05:17	39m	05:56	14h 14m	20:11	38m	20:50	45m	21:35	53m	22:28	9h 46m	5h 11m				Di, 22. Aug
Mi, 23. Aug	MESZ	22:25 – 03:43*	5h 17m	AN ₊ bis AN ₋		13:45	22:19	03:40	53m	04:34	45m	05:19	38m	05:58	14h 10m	20:09	38m	20:47	44m	21:32	52m	22:25	9h 50m	5h 17m				Mi, 23. Aug
Do, 24. Aug	MESZ	22:44 – 03:46*	5h 01m	M _\ bis AN ₋	☾	15:07	22:44	03:43	52m	04:36	44m	05:21	38m	05:59	14h 07m	20:06	38m	20:45	44m	21:29	52m	22:22	9h 54m	5h 23m				Do, 24. Aug
Fr, 25. Aug	MESZ	23:20 – 03:48*	4h 28m	M _\ bis AN ₋		16:27	23:20	03:46	52m	04:38	44m	05:22	38m	06:01	14h 03m	20:04	38m	20:43	44m	21:27	51m	22:18	9h 58m	5h 29m				Fr, 25. Aug
Sa, 26. Aug	MESZ	00:14* – 03:51*	3h 36m	M _\ bis AN ₋		17:40	—:—	03:48	51m	04:40	44m	05:24	38m	06:02	13h 59m	20:02	38m	20:40	43m	21:24	50m	22:15	10h 02m	5h 35m				Sa, 26. Aug
So, 27. Aug	MESZ	01:29* – 03:54*	2h 24m	M _\ bis AN ₋		18:38	00:14	03:51	50m	04:42	43m	05:26	38m	06:04	13h 55m	20:00	38m	20:38	43m	21:22	50m	22:12	10h 05m	5h 41m				So, 27. Aug
Mo, 28. Aug	MESZ	02:59* – 03:56*	56m	M _\ bis AN ₋		19:19	01:29	03:54	50m	04:44	43m	05:28	38m	06:06	13h 51m	19:58	37m	20:36	43m	21:19	49m	22:09	10h 09m	5h 47m				Mo, 28. Aug
Di, 29. Aug	MESZ	—:~:~:~:~	–	Mond stört		19:47	02:59	03:56	49m	04:46	43m	05:29	37m	06:07	13h 48m	19:55	37m	20:33	43m	21:16	49m	22:06	10h 13m	5h 53m				Di, 29. Aug
Mi, 30. Aug	MESZ	—:~:~:~:~	–	Mond stört		20:07	04:36	03:59	49m	04:48	43m	05:31	37m	06:09	13h 44m	19:53	37m	20:31	42m	21:14	48m	22:02	10h 17m	5h 58m				

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	
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023			
			Δt		Ph.	\nearrow	\searrow	Astr.	Δt	Naut.	Δt	Bürg.	Δt	\nearrow	Δt	\searrow	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt			
Fr, 8. Sep	MESZ	21:35 – 23:39	2h 03m	AN ₊ bis M ₇		23:39	17:05	04:20	45m	05:06	41m	05:47	36m	06:23	13h 09m	19:33	36m	20:09	40m	20:50	45m	21:35	10h 52m	6h 47m					Fr, 8. Sep
Sa, 9. Sep	MESZ	21:32 – 00:41*	3h 08m	AN ₊ bis M ₇		—:—	17:50	04:22	45m	05:07	40m	05:48	36m	06:25	13h 05m	19:31	36m	20:07	40m	20:48	44m	21:32	10h 55m	6h 52m					Sa, 9. Sep
So, 10. Sep	MESZ	21:30 – 01:51*	4h 21m	AN ₊ bis M ₇		00:41	18:22	04:25	44m	05:09	40m	05:50	36m	06:27	13h 01m	19:28	36m	20:05	40m	20:45	44m	21:30	10h 59m	6h 57m					So, 10. Sep
Mo, 11. Sep	MESZ	21:27 – 03:04*	5h 37m	AN ₊ bis M ₇		01:51	18:45	04:27	44m	05:11	40m	05:52	36m	06:28	12h 57m	19:26	36m	20:02	40m	20:43	44m	21:27	11h 03m	7h 02m					Mo, 11. Sep
Di, 12. Sep	MESZ	21:24 – 04:17*	6h 53m	AN ₊ bis M ₇		03:04	19:02	04:29	44m	05:13	40m	05:54	36m	06:30	12h 53m	19:24	36m	20:00	40m	20:40	43m	21:24	11h 07m	7h 07m					Di, 12. Sep
Mi, 13. Sep	MESZ	21:21 – 04:33*	7h 12m	AN ₊ bis AN ₋		04:17	19:16	04:31	43m	05:15	40m	05:55	36m	06:31	12h 49m	19:21	36m	19:57	40m	20:37	43m	21:21	11h 11m	7h 12m					Mi, 13. Sep
Do, 14. Sep	MESZ	21:18 – 04:35*	7h 17m	AN ₊ bis AN ₋		05:29	19:27	04:33	43m	05:17	40m	05:57	36m	06:33	12h 46m	19:19	36m	19:55	39m	20:35	43m	21:18	11h 15m	7h 17m					Do, 14. Sep
Fr, 15. Sep	MESZ	21:15 – 04:37*	7h 22m	AN ₊ bis AN ₋	●	06:40	19:37	04:35	43m	05:19	39m	05:59	36m	06:35	12h 42m	19:17	35m	19:53	39m	20:32	42m	21:15	11h 19m	7h 22m					Fr, 15. Sep
Sa, 16. Sep	MESZ	21:13 – 04:40*	7h 26m	AN ₊ bis AN ₋		07:51	19:46	04:37	43m	05:20	39m	06:00	36m	06:36	12h 38m	19:14	35m	19:50	39m	20:30	42m	21:13	11h 23m	7h 26m					Sa, 16. Sep
So, 17. Sep	MESZ	21:10 – 04:42*	7h 31m	AN ₊ bis AN ₋		09:03	19:57	04:40	42m	05:22	39m	06:02	35m	06:38	12h 34m	19:12	35m	19:48	39m	20:27	42m	21:10	11h 27m	7h 31m					So, 17. Sep
Mo, 18. Sep	MESZ	21:07 – 04:44*	7h 36m	AN ₊ bis AN ₋		10:17	20:09	04:42	42m	05:24	39m	06:04	35m	06:39	12h 30m	19:10	35m	19:46	39m	20:25	42m	21:07	11h 31m	7h 36m					Mo, 18. Sep
Di, 19. Sep	MESZ	21:04 – 04:46*	7h 41m	AN ₊ bis AN ₋		11:34	20:25	04:44	42m	05:26	39m	06:05	35m	06:41	12h 26m	19:07	35m	19:43	39m	20:22	42m	21:04	11h 35m	7h 41m					Di, 19. Sep
Mi, 20. Sep	MESZ	21:02 – 04:48*	7h 45m	AN ₊ bis AN ₋		12:54	20:46	04:46	42m	05:28	39m	06:07	35m	06:43	12h 22m	19:05	35m	19:41	39m	20:20	41m	21:02	11h 39m	7h 45m					Mi, 20. Sep
Do, 21. Sep	MESZ	21:17 – 04:50*	7h 32m	M _\ bis AN ₋		14:14	21:17	04:48	41m	05:29	39m	06:09	35m	06:44	12h 18m	19:03	35m	19:38	39m	20:17	41m	20:59	11h 43m	7h 50m					Do, 21. Sep
Fr, 22. Sep	MESZ	22:02 – 04:51*	6h 49m	M _\ bis AN ₋	◐	15:29	22:02	04:50	41m	05:31	39m	06:10	35m	06:46	12h 14m	19:00	35m	19:36	38m	20:15	41m	20:56	11h 47m	7h 55m					Fr, 22. Sep
Sa, 23. Sep	MESZ	23:07 – 04:53*	5h 46m	M _\ bis AN ₋		16:31	23:07	04:51	41m	05:33	38m	06:12	35m	06:48	12h 10m	18:58	35m	19:34	38m	20:13	41m	20:54	11h 51m	7h 59m					Sa, 23. Sep
So, 24. Sep	MESZ	00:29* – 04:55*	4h 26m	M _\ bis AN ₋		17:16	—:—	04:53	41m	05:35	38m	06:14	35m	06:49	12h 06m	18:56	35m	19:31	38m	20:10	41m	20:51	11h 55m	8h 04m					So, 24. Sep
Mo, 25. Sep	MESZ	02:01* – 04:57*	2h 56m	M _\ bis AN ₋		17:48	00:29	04:55	41m	05:36	38m	06:15	35m	06:51	12h 02m	18:54	35m	19:29	38m	20:08	40m	20:49	11h 58m	8h 08m					Mo, 25. Sep
Di, 26. Sep	MESZ	03:35* – 04:59*	1h 24m	M _\ bis AN ₋		18:10	02:01	04:57	40m	05:38	38m	06:17	35m	06:52	11h 58m	18:51	35m	19:27	38m	20:05	40m	20:46	12h 02m	8h 13m					Di, 26. Sep
Mi, 27. Sep	MESZ	—:—:—:—	–	Mond stört		18:27	03:35	04:59	40m	05:40	38m	06:19	35m	06:54	11h 54m	18:49	35m	19:24	38m	20:03	40m	20:43	12h 06m	8h 17m					Mi, 27. Sep
Do, 28. Sep	MESZ	—:—:—:—	–	Mond stört		18:41	05:08	05:01	40m	05:42	38m	06:20	35m	06:56	11h 50m	18:47	35m	19:22	38m	20:00	40m	20:41	12h 10m	8h 21m					Do, 28. Sep
Fr, 29. Sep	MESZ	—:—:—:—	–	Mond stört	◑	18:54	06:39	05:03	40m	05:43	38m	06:22	35m	06:57	11h 46m	18:44	35m	19:20	38m	19:58	40m	20:38	12h 14m	8h 26m					Fr, 29. Sep
Sa, 30. Sep	MESZ	—:—:~:~:~	–	Mond stört		19:08	08:08	05:05	40m	05:45	38m	06:23	35m	06:59	11h 42m	18:42	35m	19:17	38m	19:56	40m	20:36	12h 18m	8h 30m					Sa, 30. Sep
So, 1. Okt	MESZ	—:~:~:~:~	–	Mond stört		19:23	09:37	05:07	40m	05:47	38m	06:25	35m	07:01	11h 39m	18:40	35m	19:15	38m	19:53	40m	20:33	12h 22m	8h 34m					So, 1. Okt
Mo, 2. Okt	MESZ	—:~:~:~:~	–	Mond stört		19:42	11:06	05:08	40m	05:48	38m	06:27	35m	07:02	11h 35m	18:37	35m	19:13	38m	19:51	39m	20:31	12h 26m	8h 39m					Mo, 2. Okt
Di, 3. Okt	MESZ	—:~:~:~:~	–	Mond stört		20:07	12:31	05:10	39m	05:50	38m	06:28	35m	07:04	11h 31m	18:35	35m	19:11	38m	19:49	39m	20:29	12h 30m	8h 43m					Di, 3. Okt
Mi, 4. Okt	MESZ	20:26 – 20:42	15m	AN ₊ bis M ₇		20:42	13:50	05:12	39m	05:52	38m	06:30	35m	07:06	11h 27m	18:33	35m	19:08	38m	19:46	39m	20:26	12h 34m	8h 47m					Mi, 4. Okt
Do, 5. Okt	MESZ	20:24 – 21:29	1h 04m	AN ₊ bis M ₇		21:29	14:57	05:14	39m	05:53	38m	06:32	35m	07:07	11h 23m	18:31	35m	19:06	38m	19:44	39m	20:24	12h 38m	8h 51m					Do, 5. Okt
Fr, 6. Okt	MESZ	20:21 – 22:29	2h 07m	AN ₊ bis M ₇	◑	22:29	15:49	05:16	39m	05:55	38m	06:33	35m	07:09	11h 19m	18:28	35m	19:04	38m	19:42	39m	20:21	12h 42m	8h 55m					Fr, 6. Okt
Sa, 7. Okt	MESZ	20:19 – 23:37	3h 18m	AN ₊ bis M ₇		23:37	16:25	05:17	39m	05:57	38m	06:35	35m	07:11	11h 15m	18:26	35m	19:02	38m	19:40	39m	20:19	12h 46m	8h 59m					Sa, 7. Okt
So, 8. Okt	MESZ	20:17 – 00:50*	4h 33m	AN ₊ bis M ₇		—:—	16:51	05:19	39m	05:59	38m	06:37	35m	07:12	11h 11m	18:24	35m	18:59	38m	19:37	39m	20:17	12h 50m	9h 04m					So, 8. Okt
Mo, 9. Okt	MESZ	20:14 – 02:04*	5h 49m	AN ₊ bis M ₇		00:50	17:10	05:21	39m	06:00	38m	06:38	35m	07:14	11h 07m	18:22	35m	18:57	38m	19:35	39m	20:14	12h 54m	9h 08m					Mo, 9. Okt
Di, 10. Okt	MESZ	20:12 – 03:16*	7h 03m	AN ₊ bis M ₇		02:04	17:24	05:23	39m	06:02	38m	06:40	35m	07:16	11h 03m	18:19	35m	18:55	38m	19:33	39m	20:12	12h 58m	9h 12m					Di, 10. Okt
Mi, 11. Okt	MESZ	20:10 – 04:27*	8h 17m	AN ₊ bis M ₇		03:16	17:36	05:24	39m	06:03	38m	06:42	35m	07:17	10h 59m	18:17	35m	18:53	37m	19:31	39m	20:10	13h 01m	9h 15m					Mi, 11. Okt
Do, 12. Okt	MESZ	20:08 – 05:28*	9h 19m	AN ₊ bis AN ₋		04:27	17:46	05:26	39m	06:05	38m	06:43	35m	07:19	10h 55m	18:15	35m	18:51	37m	19:29	39m	20:08	13h 05m	9h 19m					Do, 12. Okt
Fr, 13. Okt	MESZ	20:06 – 05:29*	9h 23m	AN ₊ bis AN ₋		05:38	17:56	05:28	39m	06:07	38m	06:45	35m	07:21	10h 51m	18:13	35m	18:49	38m	19:27	39m	20:06	13h 09m	9h 23m					Fr, 13. Okt
Sa, 14. Okt	MESZ	20:03 – 05:31*	9h 27m	AN ₊ bis AN ₋	●	06:50	18:06	05:29	39m	06:08	38m	06:47	35m	07:22	10h 48m	18:11	35m	18:46	38m	19:24	38m	20:03	13h 13m	9h 27m					Sa, 14. Okt
So, 15. Okt	MESZ	20:01 – 05:33*	9h 31m	AN ₊ bis AN ₋		08:04	18:17	05:31	39m	06:10	38m	06:48	35m	07:24	10h 44m	18:08	35m	18:44	38m	19:22	38m	20:01	13h 17m	9h 31m					So, 15. Okt
Mo, 16. Okt	MESZ	19:59 – 05:34*	9h 35m	AN ₊ bis AN ₋		09:22	18:32	05:33	38m	06:12	38m	06:50	36m	07:26	10h 40m	18:06	35m	18:42	38m	19:20	38m	19:59	13h 21m	9h 35m					Mo, 16. Okt
Di, 17. Okt	MESZ	19:57 – 05:36*	9h 38m	AN ₊ bis AN ₋		10:42	18:51	05:34	38m	06:13	38m	06:52	36m	07:28	10h 36m	18:04	36m	18:40	38m	19:18	38m	19:57	13h 25m	9h 38m					Di, 17. Okt
Mi, 18. Okt	MESZ	19:55 – 05:38*	9h 42m	AN ₊ bis AN ₋		12:03	19:18	05:36	38m	06:15	38m	06:53	36m	07:29	10h 32m	18:02	36m	18:38	38m	19:16	38m	19:55	13h 29m	9h 42m					Mi, 18. Okt
Do, 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
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
			Δt		Ph.	\nearrow	\searrow	Astr.	Δt	Naut.	Δt	Bürg.	Δt	\nearrow	Δt	\searrow	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Sa, 28. Okt	MESZ	—:—:—:—	—	Mond stört	○	17:26	07:04	05:52	38m	06:31	38m	07:10	37m	07:47	9h 54m	17:42	37m	18:19	38m	18:57	38m	19:36	14h 06m	10h 17m				Sa, 28. Okt
So, 29. Okt		—:—:—:—	—	Mond stört		16:43	07:33	04:54	38m	05:33	38m	06:11	37m	06:49	9h 51m	16:40	37m	17:17	38m	17:56	38m	18:34	14h 10m	10h 21m				So, 29. Okt
Mo, 30. Okt		—:—:—:—	—	Mond stört		17:05	09:01	04:56	38m	05:34	38m	06:13	37m	06:50	9h 47m	16:38	37m	17:15	38m	17:54	38m	18:33	14h 14m	10h 24m				Mo, 30. Okt
Di, 31. Okt		—:—:—:—	—	Mond stört		17:36	10:25	04:57	38m	05:36	38m	06:15	37m	06:52	9h 43m	16:36	37m	17:13	38m	17:52	38m	18:31	14h 17m	10h 27m				Di, 31. Okt
Mi, 1. Nov		—:—:—:—	—	Mond stört		18:18	11:40	04:59	38m	05:38	38m	06:16	37m	06:54	9h 40m	16:34	37m	17:12	38m	17:51	38m	18:29	14h 21m	10h 30m				Mi, 1. Nov
Do, 2. Nov		18:28–19:14	45m	AN ₊ bis M ₇		19:14	12:40	05:00	38m	05:39	38m	06:18	37m	06:56	9h 36m	16:32	37m	17:10	38m	17:49	38m	18:28	14h 25m	10h 33m				Do, 2. Nov
Fr, 3. Nov		18:26–20:21	1h 54m	AN ₊ bis M ₇		20:21	13:24	05:02	38m	05:41	39m	06:20	37m	06:58	9h 33m	16:31	37m	17:08	38m	17:47	38m	18:26	14h 28m	10h 37m				Fr, 3. Nov
Sa, 4. Nov		18:25–21:33	3h 08m	AN ₊ bis M ₇		21:33	13:54	05:03	39m	05:42	39m	06:21	37m	06:59	9h 29m	16:29	37m	17:07	39m	17:46	38m	18:25	14h 32m	10h 40m				Sa, 4. Nov
So, 5. Nov		18:23–22:47	4h 23m	AN ₊ bis M ₇	☾	22:47	14:15	05:05	39m	05:44	39m	06:23	38m	07:01	9h 26m	16:27	37m	17:05	39m	17:44	38m	18:23	14h 35m	10h 43m				So, 5. Nov
Mo, 6. Nov		18:22–00:00*	5h 38m	AN ₊ bis M ₇		—:—	14:31	05:06	39m	05:45	39m	06:25	38m	07:03	9h 22m	16:25	38m	17:04	39m	17:43	39m	18:22	14h 39m	10h 46m				Mo, 6. Nov
Di, 7. Nov		18:20–01:12*	6h 51m	AN ₊ bis M ₇		00:00	14:44	05:08	39m	05:47	39m	06:26	38m	07:05	9h 19m	16:24	38m	17:02	39m	17:41	39m	18:20	14h 42m	10h 49m				Di, 7. Nov
Mi, 8. Nov		18:19–02:22*	8h 03m	AN ₊ bis M ₇		01:12	14:54	05:09	39m	05:49	39m	06:28	38m	07:06	9h 15m	16:22	38m	17:01	39m	17:40	39m	18:19	14h 46m	10h 51m				Mi, 8. Nov
Do, 9. Nov		18:18–03:34*	9h 16m	AN ₊ bis M ₇		02:22	15:04	05:11	39m	05:50	39m	06:30	38m	07:08	9h 12m	16:21	38m	16:59	39m	17:39	39m	18:18	14h 49m	10h 54m				Do, 9. Nov
Fr, 10. Nov		18:16–04:47*	10h 30m	AN ₊ bis M ₇		03:34	15:14	05:12	39m	05:52	39m	06:31	38m	07:10	9h 08m	16:19	38m	16:58	39m	17:37	39m	18:16	14h 52m	10h 57m				Fr, 10. Nov
Sa, 11. Nov		18:15–05:15*	11h 00m	AN ₊ bis AN ₋		04:47	15:25	05:14	39m	05:53	39m	06:33	38m	07:12	9h 05m	16:17	38m	16:56	39m	17:36	39m	18:15	14h 56m	11h 00m				Sa, 11. Nov
So, 12. Nov		18:14–05:17*	11h 03m	AN ₊ bis AN ₋		06:04	15:38	05:15	39m	05:55	39m	06:35	38m	07:14	9h 02m	16:16	38m	16:55	39m	17:35	39m	18:14	14h 59m	11h 03m				So, 12. Nov
Mo, 13. Nov		18:13–05:18*	11h 05m	AN ₊ bis AN ₋	●	07:24	15:56	05:17	39m	05:56	39m	06:36	39m	07:15	8h 59m	16:14	39m	16:53	39m	17:33	39m	18:13	15h 02m	11h 05m				Mo, 13. Nov
Di, 14. Nov		18:12–05:20*	11h 08m	AN ₊ bis AN ₋		08:47	16:20	05:18	39m	05:58	39m	06:38	39m	07:17	8h 55m	16:13	39m	16:52	39m	17:32	39m	18:12	15h 05m	11h 08m				Di, 14. Nov
Mi, 15. Nov		18:10–05:21*	11h 10m	AN ₊ bis AN ₋		10:08	16:57	05:20	39m	05:59	40m	06:39	39m	07:19	8h 52m	16:12	39m	16:51	40m	17:31	39m	18:10	15h 08m	11h 10m				Mi, 15. Nov
Do, 16. Nov		18:09–05:23*	11h 13m	AN ₊ bis AN ₋		11:19	17:50	05:21	39m	06:01	40m	06:41	39m	07:20	8h 49m	16:10	39m	16:50	40m	17:30	39m	18:09	15h 11m	11h 13m				Do, 16. Nov
Fr, 17. Nov		19:01–05:24*	10h 22m	M ₇ bis AN ₋		12:15	19:01	05:23	39m	06:02	40m	06:42	39m	07:22	8h 46m	16:09	39m	16:49	40m	17:29	39m	18:08	15h 15m	11h 15m				Fr, 17. Nov
Sa, 18. Nov		20:25–05:25*	9h 00m	M ₇ bis AN ₋		12:53	20:25	05:24	39m	06:04	40m	06:44	39m	07:24	8h 43m	16:08	39m	16:47	40m	17:28	39m	18:07	15h 17m	11h 18m				Sa, 18. Nov
So, 19. Nov		21:54–05:27*	7h 32m	M ₇ bis AN ₋		13:20	21:54	05:25	39m	06:05	40m	06:46	39m	07:26	8h 40m	16:06	39m	16:46	40m	17:27	39m	18:06	15h 20m	11h 20m				So, 19. Nov
Mo, 20. Nov		23:23–05:28*	6h 05m	M ₇ bis AN ₋	☾	13:39	23:23	05:27	39m	06:07	40m	06:47	40m	07:27	8h 37m	16:05	40m	16:45	40m	17:26	39m	18:06	15h 23m	11h 22m				Mo, 20. Nov
Di, 21. Nov		00:49*–05:29*	4h 40m	M ₇ bis AN ₋		13:54	—:—	05:28	39m	06:08	40m	06:49	40m	07:29	8h 35m	16:04	40m	16:44	40m	17:25	39m	18:05	15h 26m	11h 24m				Di, 21. Nov
Mi, 22. Nov		02:14*–05:31*	3h 16m	M ₇ bis AN ₋		14:07	00:49	05:29	39m	06:09	40m	06:50	40m	07:31	8h 32m	16:03	40m	16:43	40m	17:24	39m	18:04	15h 29m	11h 26m				Mi, 22. Nov
Do, 23. Nov		03:39*–05:32*	1h 52m	M ₇ bis AN ₋		14:19	02:14	05:31	39m	06:11	40m	06:52	40m	07:32	8h 29m	16:02	40m	16:42	40m	17:23	39m	18:03	15h 31m	11h 29m				Do, 23. Nov
Fr, 24. Nov		05:05*–05:33*	28m	M ₇ bis AN ₋		14:32	03:39	05:32	39m	06:12	40m	06:53	40m	07:34	8h 26m	16:01	40m	16:41	40m	17:22	39m	18:02	15h 34m	11h 31m				Fr, 24. Nov
Sa, 25. Nov		—:—:—:—	—	Mond stört		14:47	05:05	05:33	40m	06:13	41m	06:55	40m	07:35	8h 24m	16:00	40m	16:41	41m	17:22	40m	18:02	15h 37m	11h 33m				Sa, 25. Nov
So, 26. Nov		—:~:~:~:~	—	Mond stört		15:06	06:32	05:35	40m	06:15	41m	06:56	40m	07:37	8h 21m	15:59	40m	16:40	41m	17:21	40m	18:01	15h 39m	11h 34m				So, 26. Nov
Mo, 27. Nov		—:~:~:~:~	—	Mond stört	○	15:32	07:58	05:36	40m	06:16	41m	06:57	41m	07:38	8h 19m	15:58	41m	16:39	41m	17:20	40m	18:00	15h 41m	11h 36m				Mo, 27. Nov
Di, 28. Nov		—:~:~:~:~	—	Mond stört		16:09	09:18	05:37	40m	06:17	41m	06:59	41m	07:40	8h 17m	15:57	41m	16:38	41m	17:20	40m	18:00	15h 44m	11h 38m				Di, 28. Nov
Mi, 29. Nov		—:~:~:~:~	—	Mond stört		16:59	10:26	05:38	40m	06:19	41m	07:00	41m	07:41	8h 14m	15:56	41m	16:38	41m	17:19	40m	17:59	15h 46m	11h 40m				Mi, 29. Nov
Do, 30. Nov		17:59–18:03	3m	AN ₊ bis M ₇		18:03	11:17	05:40	40m	06:20	41m	07:01	41m	07:43	8h 12m	15:56	41m	16:37	41m	17:19	40m	17:59	15h 48m	11h 41m				Do, 30. Nov
Fr, 1. Dez		17:58–19:14	1h 15m	AN ₊ bis M ₇		19:14	11:53	05:41	40m	06:21	41m	07:03	41m	07:44	8h 10m	15:55	41m	16:37	41m	17:18	40m	17:58	15h 50m	11h 43m				Fr, 1. Dez
Sa, 2. Dez		17:58–20:29	2h 30m	AN ₊ bis M ₇		20:29	12:18	05:42	40m	06:22	41m	07:04	41m	07:46	8h 08m	15:54	41m	16:36	41m	17:18	40m	17:58	15h 52m	11h 44m				Sa, 2. Dez
So, 3. Dez		17:58–21:43	3h 45m	AN ₊ bis M ₇		21:43	12:36	05:43	40m	06:24	41m	07:05	41m	07:47	8h 06m	15:54	41m	16:36	41m	17:17	40m	17:58	15h 54m	11h 46m				So, 3. Dez
Mo, 4. Dez		17:57–22:55	4h 57m	AN ₊ bis M ₇		22:55	12:50	05:44	40m	06:25	41m	07:06	41m	07:48	8h 04m	15:53	41m	16:35	41m	17:17	40m	17:57	15h 56m	11h 47m				Mo, 4. Dez
Di, 5. Dez		17:57–00:05*	6h 08m	AN ₊ bis M ₇	☾	—:—	13:01	05:45	40m	06:26	41m	07:08	42m	07:50	8h 02m	15:53	42m	16:35	41m	17:17	40m	17:57	15h 58m	11h 49m				Di, 5. Dez
Mi, 6. Dez		17:57–01:16*	7h 18m	AN ₊ bis M ₇		00:05	13:11	05:46	40m	06:27	41m	07:09	42m	07:51	8h 01m	15:52	42m	16:34	41m	17:16	40m	17:57	15h 59m	11h 50m				Mi, 6. Dez
Do, 7. Dez		17:57–02:27*	8h 30m	AN ₊ bis M ₇		01:16	13:21	05:47	40m	06:28	41m	07:10	42m	07:52	7h 59m	15:52	42m	16:34	41m	17:16	40m	17:57	16h 01m	11h 51m				Do, 7. Dez
Fr, 8. Dez		17:57–03:42*	9h 44m	AN ₊ bis M ₇		02:27	13:31	05:48	40m	06:29	42m	07:11	42m	07:53	7h 58m	15:52	42m	16:34	42m	17:16	40m	17:57	16h 02m	11h 52m				Fr, 8. Dez
Sa, 9. Dez		17:57–05:00*	11h 03m	AN ₊ bis M ₇		03:42	13:43	05:49	40m	06:30	42m	07:12	42m	07:55														

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
2023/24	Zeitzone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023/24		
			Δt		Ph.	\nearrow	\searrow	Astr.	Δt	Naut.	Δt	Bürg.	Δt	\nearrow	Δt	\searrow	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
So, 17. Dez		21:09–05:56*	8h 46m	M _\ bis AN _\		11:45	21:09	05:56	40m	06:37	42m	07:19	42m	08:02	7h 49m	15:51	42m	16:34	42m	17:17	40m	17:58	16h 11m	11h 58m				So, 17. Dez
Mo, 18. Dez		22:37–05:57*	7h 19m	M _\ bis AN _\		12:02	22:37	05:56	40m	06:37	42m	07:20	42m	08:03	7h 48m	15:52	42m	16:35	42m	17:17	40m	17:58	16h 11m	11h 58m				Mo, 18. Dez
Di, 19. Dez		00:02*–05:58*	5h 55m	M _\ bis AN _\	☾	12:15	—:—	05:57	40m	06:38	42m	07:21	43m	08:04	7h 48m	15:52	43m	16:35	42m	17:18	40m	17:59	16h 12m	11h 59m				Di, 19. Dez
Mi, 20. Dez		01:26*–05:58*	4h 32m	M _\ bis AN _\		12:27	00:02	05:58	40m	06:39	42m	07:21	43m	08:04	7h 48m	15:52	43m	16:36	42m	17:18	40m	17:59	16h 12m	11h 59m				Mi, 20. Dez
Do, 21. Dez		02:49*–05:59*	3h 09m	M _\ bis AN _\		12:39	01:26	05:58	40m	06:39	42m	07:22	43m	08:05	7h 48m	15:53	43m	16:36	42m	17:18	40m	17:59	16h 12m	11h 59m				Do, 21. Dez
Fr, 22. Dez		04:13*–05:59*	1h 45m	M _\ bis AN _\		12:53	02:49	05:59	40m	06:40	42m	07:22	43m	08:05	7h 48m	15:53	43m	16:36	42m	17:19	40m	18:00	16h 12m	11h 59m				Fr, 22. Dez
Sa, 23. Dez		05:38*–06:00*	21m	M _\ bis AN _\		13:10	04:13	05:59	40m	06:40	42m	07:23	43m	08:06	7h 48m	15:54	43m	16:37	42m	17:19	40m	18:00	16h 12m	11h 59m				Sa, 23. Dez
So, 24. Dez		—:—:—:—	–	Mond stört		13:33	05:38	06:00	40m	06:41	42m	07:23	43m	08:06	7h 48m	15:55	43m	16:38	42m	17:20	40m	18:01	16h 11m	11h 59m				So, 24. Dez
Mo, 25. Dez		—:—:—:—	–	Mond stört		14:04	06:59	06:00	40m	06:41	42m	07:23	42m	08:06	7h 48m	15:55	43m	16:38	42m	17:21	40m	18:02	16h 11m	11h 58m				Mo, 25. Dez
Di, 26. Dez		—:—:—:—	–	Mond stört		14:49	08:11	06:00	40m	06:41	42m	07:24	42m	08:07	7h 49m	15:56	42m	16:39	42m	17:21	40m	18:02	16h 11m	11h 58m				Di, 26. Dez
Mi, 27. Dez		—:—:—:—	–	Mond stört	☽	15:47	09:08	06:01	40m	06:42	42m	07:24	42m	08:07	7h 49m	15:57	42m	16:40	42m	17:22	40m	18:03	16h 10m	11h 57m				Mi, 27. Dez
Do, 28. Dez		—:—:~:~	–	Mond stört		16:56	09:50	06:01	40m	06:42	42m	07:24	42m	08:07	7h 50m	15:58	42m	16:40	42m	17:23	40m	18:04	16h 09m	11h 57m				Do, 28. Dez
Fr, 29. Dez		18:04–18:11	6m	AN ₊ bis M ₇		18:11	10:19	06:01	40m	06:42	42m	07:24	42m	08:07	7h 51m	15:58	42m	16:41	42m	17:24	40m	18:04	16h 08m	11h 56m				Fr, 29. Dez
Sa, 30. Dez		18:05–19:26	1h 20m	AN ₊ bis M ₇		19:26	10:40	06:01	40m	06:42	42m	07:25	42m	08:07	7h 51m	15:59	42m	16:42	42m	17:24	40m	18:05	16h 08m	11h 56m				Sa, 30. Dez
So, 31. Dez		18:06–20:39	2h 32m	AN ₊ bis M ₇		20:39	10:55	06:02	40m	06:42	42m	07:25	42m	08:07	7h 52m	16:00	42m	16:43	42m	17:25	40m	18:06	16h 07m	11h 55m				So, 31. Dez
Mo, 1. Jan		18:07–21:50	3h 42m	AN ₊ bis M ₇		21:50	11:07	06:02	40m	06:42	42m	07:25	42m	08:07	7h 53m	16:01	42m	16:44	42m	17:26	40m	18:07	16h 05m	11h 54m				Mo, 1. Jan
Di, 2. Jan		18:08–22:59	4h 51m	AN ₊ bis M ₇		22:59	11:18	06:02	40m	06:42	42m	07:25	42m	08:07	7h 55m	16:02	42m	16:45	42m	17:27	40m	18:08	16h 04m	11h 53m				Di, 2. Jan
Mi, 3. Jan		18:09–00:09*	6h 00m	AN ₊ bis M ₇		—:—	11:27	06:02	40m	06:42	42m	07:25	42m	08:07	7h 56m	16:03	42m	16:46	42m	17:28	40m	18:09	16h 03m	11h 52m				Mi, 3. Jan
Do, 4. Jan		18:10–01:21*	7h 11m	AN ₊ bis M ₇	☾	00:09	11:37	06:02	40m	06:42	42m	07:24	42m	08:07	7h 57m	16:05	42m	16:47	42m	17:29	40m	18:10	16h 01m	11h 51m				Do, 4. Jan
Fr, 5. Jan		18:11–02:36*	8h 25m	AN ₊ bis M ₇		01:21	11:48	06:02	40m	06:42	42m	07:24	42m	08:07	7h 59m	16:06	42m	16:48	42m	17:30	40m	18:11	16h 00m	11h 50m				Fr, 5. Jan
Sa, 6. Jan		18:12–03:55*	9h 43m	AN ₊ bis M ₇		02:36	12:01	06:01	40m	06:42	41m	07:24	42m	08:06	8h 00m	16:07	42m	16:49	41m	17:31	40m	18:12	15h 58m	11h 49m				Sa, 6. Jan
So, 7. Jan		18:13–05:18*	11h 04m	AN ₊ bis M ₇		03:55	12:20	06:01	40m	06:42	41m	07:24	42m	08:06	8h 02m	16:08	42m	16:50	41m	17:32	40m	18:13	15h 57m	11h 48m				So, 7. Jan
Mo, 8. Jan		18:14–06:01*	11h 46m	AN ₊ bis AN _\		05:18	12:46	06:01	40m	06:42	41m	07:23	42m	08:05	8h 04m	16:10	42m	16:52	41m	17:33	40m	18:14	15h 55m	11h 46m				Mo, 8. Jan
Di, 9. Jan		18:15–06:01*	11h 45m	AN ₊ bis AN _\		06:39	13:25	06:01	40m	06:41	41m	07:23	41m	08:05	8h 06m	16:11	41m	16:53	41m	17:35	40m	18:15	15h 53m	11h 45m				Di, 9. Jan
Mi, 10. Jan		18:16–06:00*	11h 43m	AN ₊ bis AN _\		07:50	14:23	06:01	40m	06:41	41m	07:23	41m	08:04	8h 07m	16:12	41m	16:54	41m	17:36	40m	18:16	15h 51m	11h 43m				Mi, 10. Jan
Do, 11. Jan		18:17–06:00*	11h 42m	AN ₊ bis AN _\	☽	08:45	15:41	06:00	40m	06:41	41m	07:22	41m	08:04	8h 09m	16:14	41m	16:55	41m	17:37	40m	18:17	15h 49m	11h 42m				Do, 11. Jan
Fr, 12. Jan		18:19–05:59*	11h 40m	AN ₊ bis AN _\		09:22	17:12	06:00	40m	06:40	41m	07:22	41m	08:03	8h 12m	16:15	41m	16:57	41m	17:38	40m	18:19	15h 47m	11h 40m				Fr, 12. Jan
Sa, 13. Jan		18:46–05:59*	11h 12m	M _\ bis AN _\		09:48	18:46	05:59	40m	06:40	41m	07:21	41m	08:02	8h 14m	16:17	41m	16:58	41m	17:40	40m	18:20	15h 45m	11h 39m				Sa, 13. Jan
So, 14. Jan		20:19–05:58*	9h 39m	M _\ bis AN _\		10:07	20:19	05:59	40m	06:39	41m	07:20	41m	08:02	8h 16m	16:18	41m	17:00	41m	17:41	40m	18:21	15h 42m	11h 37m				So, 14. Jan
Mo, 15. Jan		21:47–05:58*	8h 10m	M _\ bis AN _\		10:21	21:47	05:58	40m	06:39	41m	07:20	41m	08:01	8h 18m	16:20	41m	17:01	41m	17:42	40m	18:22	15h 40m	11h 35m				Mo, 15. Jan
Di, 16. Jan		23:13–05:57*	6h 44m	M _\ bis AN _\		10:34	23:13	05:58	40m	06:38	41m	07:19	41m	08:00	8h 21m	16:21	41m	17:02	41m	17:43	40m	18:24	15h 37m	11h 33m				Di, 16. Jan
Mi, 17. Jan		00:38*–05:57*	5h 18m	M _\ bis AN _\		10:46	—:—	05:57	40m	06:37	41m	07:18	40m	07:59	8h 23m	16:23	40m	17:04	41m	17:45	40m	18:25	15h 35m	11h 31m				Mi, 17. Jan
Do, 18. Jan		02:02*–05:56*	3h 53m	M _\ bis AN _\	☾	11:00	00:38	05:57	39m	06:37	40m	07:17	40m	07:58	8h 26m	16:25	40m	17:05	40m	17:46	40m	18:26	15h 32m	11h 29m				Do, 18. Jan
Fr, 19. Jan		03:26*–05:55*	2h 29m	M _\ bis AN _\		11:15	02:02	05:56	39m	06:36	40m	07:17	40m	07:57	8h 28m	16:26	40m	17:07	40m	17:48	39m	18:28	15h 30m	11h 27m				Fr, 19. Jan
Sa, 20. Jan		04:47*–05:54*	1h 06m	M _\ bis AN _\		11:36	03:26	05:55	39m	06:35	40m	07:16	40m	07:56	8h 31m	16:28	40m	17:08	40m	17:49	39m	18:29	15h 27m	11h 25m				Sa, 20. Jan
So, 21. Jan		—:~:~:~	–	Mond stört		12:04	04:47	05:54	39m	06:34	40m	07:15	40m	07:55	8h 34m	16:30	40m	17:10	40m	17:50	39m	18:30	15h 24m	11h 23m				So, 21. Jan
Mo, 22. Jan		—:~:~:~	–	Mond stört		12:43	06:02	05:54	39m	06:33	40m	07:14	40m	07:54	8h 37m	16:31	40m	17:11	40m	17:52	39m	18:32	15h 21m	11h 20m				Mo, 22. Jan
Di, 23. Jan		—:~:~:~	–	Mond stört		13:37	07:03	05:53	39m	06:32	40m	07:13	40m	07:53	8h 40m	16:33	40m	17:13	40m	17:53	39m	18:33	15h 18m	11h 18m				Di, 23. Jan
Mi, 24. Jan		—:~:~:~	–	Mond stört		14:42	07:49	05:52	39m	06:31	40m	07:12	39m	07:52	8h 43m	16:35	39m	17:15	40m	17:55	39m	18:35	15h 15m	11h 16m				Mi, 24. Jan
Do, 25. Jan		—:~:~:~	–	Mond stört	☽	15:55	08:22	05:51	39m	06:30	40m	07:11	39m	07:50	8h 46m	16:36	39m	17:16	40m	17:56	39m	18:36	15h 12m	11h 13m				Do, 25. Jan
Fr, 26. Jan		—:~:~:~	–	Mond stört		17:10	08:45	05:50	39m	06:29	40m	07:09	39m	07:49	8h 49m	16:38	39m	17:18	40m	17:58	39m	18:37	15h 09m	11h 11m				Fr, 26. Jan
Sa, 27. Jan		—:~:~:~	–	Mond stört		18:24	09:01	05:49	39m	06:28	40m	07:08	39m	07:48	8h 52m	16:40	39m	17:19	40m	17:59	39m	18:39	15h 06m	11h 08m				Sa, 27. Jan
So, 28. Jan		18:40–19:36	55m	AN ₊ bis M ₇		19:36	09:14	05:48	39m	06:27	39m	07:07	39m	07:46	8h 55m	16:42												