

Mond- und Dämmerungstabelle 2023

für die visuelle Deep-Sky-Beobachtung

Lübben (Spreewald) 51.9419° N 13.8964° 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
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		03:54* – 06:05*	2h 11m	M _\ bis AN _\		12:33	02:37	06:05	40m	06:46	42m	07:28	42m	08:11	7h 52m	16:04	42m	16:46	42m	17:29	40m	18:10	16h 07m	11h 55m				So, 1. Jan
Mo, 2. Jan		05:10* – 06:05*	55m	M _\ bis AN _\		12:50	03:54	06:05	40m	06:46	42m	07:28	42m	08:11	7h 53m	16:05	42m	16:47	42m	17:30	40m	18:11	16h 06m	11h 54m				Mo, 2. Jan
Di, 3. Jan		—:—:—:—:—	–	Mond stört		13:11	05:10	06:05	40m	06:46	42m	07:28	42m	08:11	7h 54m	16:06	42m	16:48	42m	17:31	40m	18:12	16h 05m	11h 53m				Di, 3. Jan
Mi, 4. Jan		—:—:—:—:—	–	Mond stört		13:40	06:23	06:05	40m	06:46	42m	07:28	42m	08:11	7h 56m	16:07	42m	16:50	42m	17:32	40m	18:13	16h 03m	11h 52m				Mi, 4. Jan
Do, 5. Jan		—:—:—:—:—	–	Mond stört		14:19	07:30	06:05	40m	06:46	42m	07:28	42m	08:10	7h 57m	16:08	42m	16:51	42m	17:33	40m	18:14	16h 01m	11h 50m				Do, 5. Jan
Fr, 6. Jan		—:~:~:~:~:~	–	Mond stört		15:09	08:25	06:05	40m	06:46	42m	07:28	42m	08:10	7h 59m	16:09	42m	16:52	42m	17:34	40m	18:15	16h 00m	11h 49m				Fr, 6. Jan
Sa, 7. Jan		—:~:~:~:~:~	–	Mond stört	○	16:11	09:08	06:05	40m	06:45	42m	07:27	42m	08:10	8h 00m	16:11	42m	16:53	42m	17:35	40m	18:16	15h 58m	11h 48m				Sa, 7. Jan
So, 8. Jan		—:~:~:~:~:~	–	Mond stört		17:20	09:40	06:04	40m	06:45	41m	07:27	42m	08:09	8h 02m	16:12	42m	16:54	42m	17:36	40m	18:17	15h 56m	11h 47m				So, 8. Jan
Mo, 9. Jan		18:18 – 18:32	14m	AN ₊ bis M ₇		18:32	10:03	06:04	40m	06:45	41m	07:27	42m	08:09	8h 04m	16:13	42m	16:55	41m	17:37	40m	18:18	15h 54m	11h 45m				Mo, 9. Jan
Di, 10. Jan		18:19 – 19:45	1h 25m	AN ₊ bis M ₇		19:45	10:21	06:04	40m	06:44	41m	07:26	42m	08:08	8h 06m	16:15	42m	16:57	41m	17:39	40m	18:19	15h 52m	11h 44m				Di, 10. Jan
Mi, 11. Jan		18:20 – 20:57	2h 36m	AN ₊ bis M ₇		20:57	10:35	06:03	40m	06:44	41m	07:26	41m	08:08	8h 08m	16:16	41m	16:58	41m	17:40	40m	18:20	15h 50m	11h 42m				Mi, 11. Jan
Do, 12. Jan		18:22 – 22:08	3h 46m	AN ₊ bis M ₇		22:08	10:47	06:03	40m	06:43	41m	07:25	41m	08:07	8h 10m	16:18	41m	16:59	41m	17:41	40m	18:22	15h 48m	11h 40m				Do, 12. Jan
Fr, 13. Jan		18:23 – 23:21	4h 57m	AN ₊ bis M ₇		23:21	10:58	06:03	40m	06:43	41m	07:25	41m	08:06	8h 12m	16:19	41m	17:01	41m	17:42	40m	18:23	15h 46m	11h 39m				Fr, 13. Jan
Sa, 14. Jan		18:24 – 00:36*	6h 11m	AN ₊ bis M ₇		—:—	11:09	06:02	40m	06:42	41m	07:24	41m	08:05	8h 15m	16:21	41m	17:02	41m	17:44	40m	18:24	15h 43m	11h 37m				Sa, 14. Jan
So, 15. Jan		18:25 – 01:54*	7h 29m	AN ₊ bis M ₇	●	00:36	11:21	06:01	40m	06:42	41m	07:23	41m	08:05	8h 17m	16:22	41m	17:04	41m	17:45	40m	18:25	15h 41m	11h 35m				So, 15. Jan
Mo, 16. Jan		18:27 – 03:18*	8h 51m	AN ₊ bis M ₇		01:54	11:36	06:01	40m	06:41	41m	07:22	41m	08:04	8h 20m	16:24	41m	17:05	41m	17:46	40m	18:27	15h 38m	11h 33m				Mo, 16. Jan
Di, 17. Jan		18:28 – 04:45*	10h 17m	AN ₊ bis M ₇		03:18	11:56	06:00	40m	06:40	41m	07:22	41m	08:03	8h 22m	16:25	41m	17:07	41m	17:48	40m	18:28	15h 36m	11h 31m				Di, 17. Jan
Mi, 18. Jan		18:29 – 05:59*	11h 29m	AN ₊ bis AN _\		04:45	12:24	06:00	40m	06:40	41m	07:21	40m	08:02	8h 25m	16:27	40m	17:08	41m	17:49	40m	18:29	15h 33m	11h 29m				Mi, 18. Jan
Do, 19. Jan		18:31 – 05:58*	11h 27m	AN ₊ bis AN _\		06:11	13:07	05:59	40m	06:39	41m	07:20	40m	08:01	8h 27m	16:29	40m	17:10	41m	17:51	40m	18:31	15h 31m	11h 27m				Do, 19. Jan
Fr, 20. Jan		18:32 – 05:57*	11h 25m	AN ₊ bis AN _\		07:26	14:10	05:58	40m	06:38	40m	07:19	40m	08:00	8h 30m	16:30	40m	17:11	40m	17:52	40m	18:32	15h 28m	11h 25m				Fr, 20. Jan
Sa, 21. Jan		18:33 – 05:57*	11h 23m	AN ₊ bis AN _\	●	08:22	15:33	05:57	39m	06:37	40m	07:18	40m	07:59	8h 33m	16:32	40m	17:13	40m	17:53	40m	18:33	15h 25m	11h 23m				Sa, 21. Jan
So, 22. Jan		18:35 – 05:56*	11h 20m	AN ₊ bis AN _\		09:00	17:07	05:57	39m	06:36	40m	07:17	40m	07:57	8h 36m	16:34	40m	17:14	40m	17:55	39m	18:35	15h 22m	11h 20m				So, 22. Jan
Mo, 23. Jan		18:43 – 05:55*	11h 12m	M _\ bis AN _\		09:26	18:43	05:56	39m	06:35	40m	07:16	40m	07:56	8h 39m	16:36	40m	17:16	40m	17:56	39m	18:36	15h 19m	11h 18m				Mo, 23. Jan
Di, 24. Jan		20:14 – 05:54*	9h 39m	M _\ bis AN _\		09:45	20:14	05:55	39m	06:34	40m	07:15	40m	07:55	8h 42m	16:37	40m	17:17	40m	17:58	39m	18:38	15h 16m	11h 16m				Di, 24. Jan
Mi, 25. Jan		21:41 – 05:53*	8h 12m	M _\ bis AN _\		10:00	21:41	05:54	39m	06:33	40m	07:14	39m	07:54	8h 45m	16:39	39m	17:19	40m	17:59	39m	18:39	15h 13m	11h 13m				Mi, 25. Jan
Do, 26. Jan		23:03 – 05:52*	6h 48m	M _\ bis AN _\		10:13	23:03	05:53	39m	06:32	40m	07:13	39m	07:52	8h 48m	16:41	39m	17:21	40m	18:01	39m	18:41	15h 10m	11h 11m				Do, 26. Jan
Fr, 27. Jan		00:23* – 05:51*	5h 27m	M _\ bis AN _\		10:25	—:—	05:52	39m	06:31	40m	07:12	39m	07:51	8h 51m	16:43	39m	17:22	40m	18:02	39m	18:42	15h 07m	11h 08m				Fr, 27. Jan
Sa, 28. Jan		01:42* – 05:49*	4h 07m	M _\ bis AN _\	●	10:39	00:23	05:51	39m	06:30	40m	07:10	39m	07:50	8h 54m	16:44	39m	17:24	40m	18:04	39m	18:44	15h 03m	11h 05m				Sa, 28. Jan
So, 29. Jan		03:00* – 05:48*	2h 48m	M _\ bis AN _\		10:55	01:42	05:49	39m	06:29	40m	07:09	39m	07:48	8h 57m	16:46	39m	17:26	40m	18:06	39m	18:45	15h 00m	11h 03m				So, 29. Jan
Mo, 30. Jan		04:15* – 05:47*	1h 32m	M _\ bis AN _\		11:14	03:00	05:48	39m	06:28	39m	07:08	39m	07:47	9h 01m	16:48	39m	17:27	39m	18:07	39m	18:47	14h 57m	11h 00m				Mo, 30. Jan
Di, 31. Jan		05:23* – 05:46*	22m	M _\ bis AN _\		11:41	04:15	05:47	39m	06:26	39m	07:06	39m	07:45	9h 04m	16:50	39m	17:29	39m	18:09	39m	18:48	14h 53m	10h 57m				Di, 31. Jan
Mi, 1. Feb		—:~:~:~:~:~	–	Mond stört		12:16	05:23	05:46	39m	06:25	39m	07:05	38m	07:44	9h 07m	16:52	38m	17:31	39m	18:10	39m	18:50	14h 50m	10h 54m				Mi, 1. Feb
Do, 2. Feb		—:~:~:~:~:~	–	Mond stört		13:03	06:22	05:45	39m	06:24	39m	07:03	38m	07:42	9h 11m	16:54	38m	17:32	39m	18:12	39m	18:51	14h 47m	10h 51m				Do, 2. Feb
Fr, 3. Feb		—:~:~:~:~:~	–	Mond stört		14:02	07:09	05:43	39m	06:22	39m	07:02	38m	07:41	9h 14m	16:55	38m	17:34	39m	18:14	39m	18:53	14h 43m	10h 48m				Fr, 3. Feb
Sa, 4. Feb		—:~:~:~:~:~	–	Mond stört		15:09	07:43	05:42	39m	06:21	39m	07:01	38m	07:39	9h 18m	16:57	38m	17:36	39m	18:15	39m	18:55	14h 40m	10h 45m				Sa, 4. Feb
So, 5. Feb		—:~:~:~:~:~	–	Mond stört	○	16:21	08:09	05:40	39m	06:20	39m	06:59	38m	07:37	9h 21m	16:59	38m	17:37	39m	18:17	39m	18:56	14h 36m	10h 42m				So, 5. Feb
Mo, 6. Feb		—:~:~:~:~:~	–	Mond stört		17:34	08:28	05:39	39m	06:18	39m	06:57	38m	07:36	9h 25m	17:01	38m	17:39	39m	18:19	39m	18:58	14h 32m	10h 39m				Mo, 6. Feb
Di, 7. Feb		—:~:~:~:~:~	–	Mond stört		18:47	08:42	05:37	39m	06:17	39m	06:56	38m	07:34	9h 28m	17:03	38m	17:41	39m	18:20	39m	18:59	14h 29m	10h 36m				Di, 7. Feb
Mi, 8. Feb		19:01 – 19:59	57m	AN ₊ bis M ₇		19:59	08:55	05:36	39m	06:15	39m	06:54	37m	07:32	9h 32m	17:05	37m	17:43	39m	18:22	39m	19:01	14h 25m	10h 33m				Mi, 8. Feb
Do, 9. Feb		19:03 – 21:11	2h 08m	AN ₊ bis M ₇		21:11	09:06	05:34	39m	06:13	39m	06:53	37m	07:30	9h 36m	17:07	37m	17:44	39m	18:23	39m	19:03	14h 21m	10h 30m				Do, 9. Feb
Fr, 10. Feb		19:04 – 22:24	3h 19m	AN ₊ bis M ₇		22:24	09:16	05:33	39m	06:12	38m	06:51	37m	07:28	9h 39m	17:08	37m	17:46	39m	18:25	39m	19:04	14h 18m	10h 27m				Fr, 10. Feb
Sa, 11. Feb		19:06 – 23:40	4h 34m	AN ₊ bis M ₇		23:40	09:28	05:31	38m	06:10	38m	06:49	37m	07:27	9h 43m	17:10	37m	17:48	38m	18:27	39m	19:06	14h 14m	10h 23m				Sa, 11. Feb
So, 12. Feb		19:08 – 01:00*	5h 52m	AN ₊ bis M ₇		—:~	09:41	05:30	38m	06:09	38m	06:47	37m	07:25	9h 47m													

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

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

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

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