

Mond- und Dämmerungstabelle 2023

für die visuelle Deep-Sky-Beobachtung

Freising 48.4028° N 11.7489° 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), M_l

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

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

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

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

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

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

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