

Mond- und Dämmerungstabelle 2023

für die visuelle Deep-Sky-Beobachtung

Ingolstadt 48.7656° N 11.4244° 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		03:53*–06:10*	2h 16m	M _\ bis AN _\		12:52	02:40	06:10	38m	06:48	39m	07:27	39m	08:06	8h 21m	16:28	39m	17:07	39m	17:47	38m	18:25	15h 38m	11h 45m					So, 1. Jan
Mo, 2. Jan		05:05*–06:10*	1h 04m	M _\ bis AN _\		13:12	03:53	06:10	38m	06:48	39m	07:27	39m	08:06	8h 22m	16:29	39m	17:08	39m	17:47	38m	18:26	15h 37m	11h 44m					Mo, 2. Jan
Di, 3. Jan		—:—:—:—:—	–	Mond stört		13:37	05:05	06:10	38m	06:48	39m	07:27	39m	08:06	8h 23m	16:30	39m	17:09	39m	17:48	38m	18:27	15h 35m	11h 43m					Di, 3. Jan
Mi, 4. Jan		—:—:—:—:—	–	Mond stört		14:09	06:15	06:10	38m	06:48	39m	07:27	38m	08:06	8h 25m	16:31	38m	17:10	39m	17:49	38m	18:28	15h 34m	11h 42m					Mi, 4. Jan
Do, 5. Jan		—:—:—:—:—	–	Mond stört		14:50	07:19	06:10	38m	06:48	39m	07:27	38m	08:06	8h 26m	16:32	38m	17:11	39m	17:50	38m	18:28	15h 33m	11h 41m					Do, 5. Jan
Fr, 6. Jan		—:~:~:~:~:~	–	Mond stört		15:41	08:14	06:10	38m	06:48	39m	07:27	38m	08:06	8h 27m	16:33	38m	17:12	39m	17:51	38m	18:29	15h 31m	11h 40m					Fr, 6. Jan
Sa, 7. Jan		—:~:~:~:~:~	–	Mond stört	○	16:41	08:59	06:10	38m	06:48	38m	07:27	38m	08:05	8h 29m	16:35	38m	17:13	38m	17:52	38m	18:30	15h 30m	11h 39m					Sa, 7. Jan
So, 8. Jan		—:~:~:~:~:~	–	Mond stört		17:47	09:33	06:10	38m	06:48	38m	07:26	38m	08:05	8h 30m	16:36	38m	17:14	38m	17:53	38m	18:31	15h 28m	11h 37m					So, 8. Jan
Mo, 9. Jan		18:32–18:56	23m	AN ₊ bis M ₇		18:56	10:00	06:09	37m	06:47	38m	07:26	38m	08:05	8h 32m	16:37	38m	17:16	38m	17:55	37m	18:32	15h 27m	11h 36m					Mo, 9. Jan
Di, 10. Jan		18:34–20:04	1h 30m	AN ₊ bis M ₇		20:04	10:21	06:09	37m	06:47	38m	07:26	38m	08:04	8h 34m	16:38	38m	17:17	38m	17:56	37m	18:34	15h 25m	11h 35m					Di, 10. Jan
Mi, 11. Jan		18:35–21:13	2h 38m	AN ₊ bis M ₇		21:13	10:38	06:09	37m	06:47	38m	07:25	38m	08:04	8h 35m	16:40	38m	17:18	38m	17:57	37m	18:35	15h 23m	11h 33m					Mi, 11. Jan
Do, 12. Jan		18:36–22:21	3h 45m	AN ₊ bis M ₇		22:21	10:53	06:09	37m	06:46	38m	07:25	38m	08:03	8h 37m	16:41	38m	17:19	38m	17:58	37m	18:36	15h 21m	11h 32m					Do, 12. Jan
Fr, 13. Jan		18:37–23:30	4h 53m	AN ₊ bis M ₇		23:30	11:07	06:08	37m	06:46	38m	07:25	38m	08:03	8h 39m	16:42	38m	17:20	38m	17:59	37m	18:37	15h 19m	11h 30m					Fr, 13. Jan
Sa, 14. Jan		18:38–00:42*	6h 03m	AN ₊ bis M ₇		—:—	11:21	06:08	37m	06:46	38m	07:24	38m	08:02	8h 41m	16:44	38m	17:22	38m	18:00	37m	18:38	15h 17m	11h 29m					Sa, 14. Jan
So, 15. Jan		18:39–01:56*	7h 17m	AN ₊ bis M ₇	●	00:42	11:37	06:07	37m	06:45	38m	07:23	37m	08:01	8h 43m	16:45	37m	17:23	38m	18:02	37m	18:39	15h 15m	11h 27m					So, 15. Jan
Mo, 16. Jan		18:40–03:16*	8h 35m	AN ₊ bis M ₇		01:56	11:55	06:07	37m	06:45	38m	07:23	37m	08:01	8h 45m	16:47	37m	17:24	38m	18:03	37m	18:40	15h 13m	11h 25m					Mo, 16. Jan
Di, 17. Jan		18:42–04:39*	9h 57m	AN ₊ bis M ₇		03:16	12:19	06:06	37m	06:44	38m	07:22	37m	08:00	8h 48m	16:48	37m	17:26	38m	18:04	37m	18:42	15h 11m	11h 24m					Di, 17. Jan
Mi, 18. Jan		18:43–06:01*	11h 17m	AN ₊ bis M ₇		04:39	12:52	06:06	37m	06:43	38m	07:22	37m	07:59	8h 50m	16:49	37m	17:27	38m	18:05	37m	18:43	15h 08m	11h 22m					Mi, 18. Jan
Do, 19. Jan		18:44–06:05*	11h 20m	AN ₊ bis AN _\		06:01	13:38	06:05	37m	06:43	38m	07:21	37m	07:58	8h 52m	16:51	37m	17:28	38m	18:07	37m	18:44	15h 06m	11h 20m					Do, 19. Jan
Fr, 20. Jan		18:45–06:04*	11h 18m	AN ₊ bis AN _\		07:14	14:42	06:05	37m	06:42	38m	07:20	37m	07:57	8h 55m	16:52	37m	17:30	38m	18:08	37m	18:45	15h 04m	11h 18m					Fr, 20. Jan
Sa, 21. Jan		18:47–06:03*	11h 16m	AN ₊ bis AN _\	●	08:12	16:03	06:04	37m	06:41	37m	07:19	37m	07:56	8h 57m	16:54	37m	17:31	37m	18:09	37m	18:47	15h 01m	11h 16m					Sa, 21. Jan
So, 22. Jan		18:48–06:02*	11h 14m	AN ₊ bis AN _\		08:54	17:32	06:03	37m	06:41	37m	07:18	37m	07:56	8h 59m	16:55	37m	17:33	37m	18:11	37m	18:48	14h 59m	11h 14m					So, 22. Jan
Mo, 23. Jan		19:03–06:02*	10h 58m	M _\ bis AN _\		09:25	19:03	06:02	37m	06:40	37m	07:18	37m	07:55	9h 02m	16:57	37m	17:34	37m	18:12	37m	18:49	14h 56m	11h 12m					Mo, 23. Jan
Di, 24. Jan		20:30–06:01*	9h 30m	M _\ bis AN _\		09:48	20:30	06:02	37m	06:39	37m	07:17	36m	07:53	9h 05m	16:59	36m	17:36	37m	18:13	37m	18:51	14h 53m	11h 10m					Di, 24. Jan
Mi, 25. Jan		21:52–06:00*	8h 07m	M _\ bis AN _\		10:07	21:52	06:01	37m	06:38	37m	07:16	36m	07:52	9h 07m	17:00	36m	17:37	37m	18:15	37m	18:52	14h 51m	11h 08m					Mi, 25. Jan
Do, 26. Jan		23:11–05:59*	6h 47m	M _\ bis AN _\		10:23	23:11	06:00	37m	06:37	37m	07:15	36m	07:51	9h 10m	17:02	36m	17:38	37m	18:16	37m	18:53	14h 48m	11h 05m					Do, 26. Jan
Fr, 27. Jan		00:27*–05:58*	5h 30m	M _\ bis AN _\		10:39	—:—	05:59	37m	06:36	37m	07:14	36m	07:50	9h 13m	17:03	36m	17:40	37m	18:17	37m	18:55	14h 45m	11h 03m					Fr, 27. Jan
Sa, 28. Jan		01:42*–05:57*	4h 14m	M _\ bis AN _\	●	10:56	00:27	05:58	37m	06:35	37m	07:12	36m	07:49	9h 16m	17:05	36m	17:41	37m	18:19	37m	18:56	14h 42m	11h 01m					Sa, 28. Jan
So, 29. Jan		02:56*–05:56*	3h 00m	M _\ bis AN _\		11:16	01:42	05:57	36m	06:34	37m	07:11	36m	07:48	9h 18m	17:07	36m	17:43	37m	18:20	37m	18:57	14h 39m	10h 58m					So, 29. Jan
Mo, 30. Jan		04:07*–05:55*	1h 47m	M _\ bis AN _\		11:39	02:56	05:56	36m	06:33	37m	07:10	36m	07:46	9h 21m	17:08	36m	17:44	37m	18:22	36m	18:59	14h 36m	10h 56m					Mo, 30. Jan
Di, 31. Jan		05:13*–05:54*	40m	M _\ bis AN _\		12:09	04:07	05:55	36m	06:32	37m	07:09	36m	07:45	9h 24m	17:10	36m	17:46	37m	18:23	36m	19:00	14h 33m	10h 53m					Di, 31. Jan
Mi, 1. Feb		—:~:~:~:~:~	–	Mond stört		12:47	05:13	05:54	36m	06:31	37m	07:08	35m	07:44	9h 27m	17:11	35m	17:47	37m	18:25	36m	19:01	14h 30m	10h 51m					Mi, 1. Feb
Do, 2. Feb		—:~:~:~:~:~	–	Mond stört		13:35	06:11	05:53	36m	06:30	36m	07:07	35m	07:42	9h 30m	17:13	35m	17:49	37m	18:26	36m	19:03	14h 27m	10h 48m					Do, 2. Feb
Fr, 3. Feb		—:~:~:~:~:~	–	Mond stört		14:33	06:58	05:52	36m	06:28	36m	07:05	35m	07:41	9h 33m	17:15	35m	17:50	36m	18:27	36m	19:04	14h 24m	10h 46m					Fr, 3. Feb
Sa, 4. Feb		—:~:~:~:~:~	–	Mond stört		15:37	07:35	05:50	36m	06:27	36m	07:04	35m	07:40	9h 36m	17:16	35m	17:52	36m	18:29	36m	19:06	14h 21m	10h 43m					Sa, 4. Feb
So, 5. Feb		—:~:~:~:~:~	–	Mond stört	○	16:46	08:04	05:49	36m	06:26	36m	07:03	35m	07:38	9h 39m	17:18	35m	17:54	36m	18:30	36m	19:07	14h 18m	10h 40m					So, 5. Feb
Mo, 6. Feb		—:~:~:~:~:~	–	Mond stört		17:55	08:26	05:48	36m	06:25	36m	07:01	35m	07:37	9h 43m	17:20	35m	17:55	36m	18:32	36m	19:08	14h 15m	10h 38m					Mo, 6. Feb
Di, 7. Feb		—:~:~:~:~:~	–	Mond stört		19:04	08:44	05:47	36m	06:23	36m	07:00	35m	07:35	9h 46m	17:21	35m	17:57	36m	18:33	36m	19:10	14h 12m	10h 35m					Di, 7. Feb
Mi, 8. Feb		19:11–20:13	1h 01m	AN ₊ bis M ₇		20:13	09:00	05:45	36m	06:22	36m	06:58	35m	07:34	9h 49m	17:23	35m	17:58	36m	18:35	36m	19:11	14h 09m	10h 32m					Mi, 8. Feb
Do, 9. Feb		19:13–21:21	2h 08m	AN ₊ bis M ₇		21:21	09:14	05:44	36m	06:20	36m	06:57	35m	07:32	9h 52m	17:25	35m	18:00	36m	18:36	36m	19:13	14h 05m	10h 29m					Do, 9. Feb
Fr, 10. Feb		19:14–22:31	3h 16m	AN ₊ bis M ₇		22:31	09:28	05:42	36m	06:19	36m	06:55	34m	07:30	9h 55m	17:26	35m	18:01	36m	18:38	36m	19:14	14h 02m	10h 26m					Fr, 10. Feb
Sa, 11. Feb		19:16–23:43	4h 27m	AN ₊ bis M ₇		23:43	09:42	05:41	36m	06:18	36m	06:54	34m	07:29	9h 59m	17:28	34m	18:03	36m	18:39	36m	19:16	13h 59m	10h 23m					Sa, 11. Feb

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

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

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

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