Mond- und Dämmerungstabelle 2023

für die visuelle Deep-Sky-Beobachtung

Frankfurt am Main 50.1106° N 8.6822° E

Berechnung: pyEphem
Textsatz: LaTeX

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*), $M_\searrow$ (*Monduntergang*), AN_- (*Ende der astronomischen Nacht = Beginn der astr. Morgendämmerung*), $M_\nearrow$ (*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 = $-18°_\nearrow$).
Spalte 10 Dauer der astr. Morgendämmerung.
Spalte 11 Beginn der naut. Morgendämmerung (Sonnenhöhe = $-12°_\nearrow$).
Spalte 12 Dauer der naut. Morgendämmerung.
Spalte 13 Beginn der bürg. Morgendämmerung (Sonnenhöhe = $-6°_\nearrow$).
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 = $-6°_\searrow$).
Spalte 20 Dauer der naut. Abenddämmerung.
Spalte 21 Ende der naut. Abenddämmerung (Sonnenhöhe = $-12°_\searrow$).
Spalte 22 Dauer der astr. Abenddämmerung.
Spalte 23 Ende der astr. Abenddämmerung (Sonnenhöhe = $-18°_\searrow$).
Spalte 24 Länge der Nacht.
Spalte 25 Länge der astr. Nacht.

Für Beobachter, die zu Zeiten der Mitternachtsdämmerung während der astr. Dämmerung beoachten 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*), $M_\searrow$ (*Monduntergang*), ND_- (*Ende der »naut. Dunkelheit« = Beginn der naut. Morgendämmerung*), $M_\nearrow$ (*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-	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.	↗	↘	Astr.	Δt	Naut.	Δt	Bürg.	Δt	↗	Δt	↘	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
So, 1. Jan		04:09* – 06:23*	2h 13m	M↘ bis AN–		12:59	02:54	06:23	39m	07:02	40m	07:43	40m	08:23	8h 09m	16:33	40m	17:14	40m	17:54	39m	18:34	15h 50m	11h 49m				So, 1. Jan
Mo, 2. Jan		05:23* – 06:23*	1h 00m	M↘ bis AN–		13:18	04:09	06:23	39m	07:02	40m	07:43	40m	08:23	8h 10m	16:34	40m	17:15	40m	17:55	39m	18:35	15h 48m	11h 48m				Mo, 2. Jan
Di, 3. Jan		—:——:—	–	Mond stört		13:42	05:23	06:23	39m	07:02	40m	07:43	40m	08:23	8h 12m	16:35	40m	17:16	40m	17:56	39m	18:36	15h 47m	11h 47m				Di, 3. Jan
Mi, 4. Jan		—:——:—	–	Mond stört		14:12	06:34	06:23	39m	07:02	40m	07:43	40m	08:23	8h 13m	16:36	40m	17:17	40m	17:57	39m	18:36	15h 46m	11h 46m				Mi, 4. Jan
Do, 5. Jan		—:——:—	–	Mond stört		14:53	07:39	06:23	39m	07:02	40m	07:42	40m	08:23	8h 14m	16:38	40m	17:18	40m	17:58	39m	18:37	15h 44m	11h 45m				Do, 5. Jan
Fr, 6. Jan		—:——:—	–	Mond stört		15:44	08:34	06:23	39m	07:02	40m	07:42	40m	08:22	8h 16m	16:39	40m	17:19	40m	17:59	39m	18:38	15h 43m	11h 44m				Fr, 6. Jan
Sa, 7. Jan		—:——:—	–	Mond stört	○	16:45	09:18	06:23	39m	07:02	40m	07:42	40m	08:22	8h 17m	16:40	40m	17:20	40m	18:00	39m	18:39	15h 41m	11h 43m				Sa, 7. Jan
So, 8. Jan		—:——:—	–	Mond stört		17:52	09:51	06:22	39m	07:02	40m	07:42	40m	08:22	8h 19m	16:41	40m	17:21	40m	18:01	39m	18:41	15h 40m	11h 41m				So, 8. Jan
Mo, 9. Jan		18:42 – 19:02	20m	AN+ bis M↗		19:02	10:16	06:22	39m	07:01	40m	07:41	39m	08:21	8h 21m	16:42	39m	17:22	40m	18:03	39m	18:42	15h 38m	11h 40m				Mo, 9. Jan
Di, 10. Jan		18:43 – 20:12	1h 29m	AN+ bis M↗		20:12	10:36	06:22	38m	07:01	40m	07:41	39m	08:21	8h 22m	16:44	39m	17:24	40m	18:04	39m	18:43	15h 36m	11h 38m				Di, 10. Jan
Mi, 11. Jan		18:44 – 21:22	2h 38m	AN+ bis M↗		21:22	10:52	06:22	38m	07:01	39m	07:41	39m	08:20	8h 24m	16:45	39m	17:25	39m	18:05	38m	18:44	15h 34m	11h 37m				Mi, 11. Jan
Do, 12. Jan		18:45 – 22:32	3h 46m	AN+ bis M↗		22:32	11:06	06:21	38m	07:00	39m	07:40	39m	08:20	8h 26m	16:47	39m	17:26	39m	18:06	38m	18:45	15h 32m	11h 35m				Do, 12. Jan
Fr, 13. Jan		18:46 – 23:42	4h 55m	AN+ bis M↗		23:42	11:18	06:21	38m	07:00	39m	07:40	39m	08:19	8h 28m	16:48	39m	17:27	39m	18:07	38m	18:46	15h 30m	11h 34m				Fr, 13. Jan
Sa, 14. Jan		18:47 – 00:55*	6h 07m	AN+ bis M↗		—:—	11:31	06:20	38m	06:59	39m	07:39	39m	08:18	8h 31m	16:49	39m	17:29	39m	18:09	38m	18:47	15h 28m	11h 32m				Sa, 14. Jan
So, 15. Jan		18:49 – 02:11*	7h 22m	AN+ bis M↗	◑	00:55	11:46	06:20	38m	06:59	39m	07:38	39m	08:18	8h 33m	16:51	39m	17:30	39m	18:10	38m	18:49	15h 26m	11h 30m				So, 15. Jan
Mo, 16. Jan		18:50 – 03:33*	8h 42m	AN+ bis M↗		02:11	12:03	06:19	38m	06:58	39m	07:38	39m	08:17	8h 35m	16:52	39m	17:32	39m	18:11	38m	18:50	15h 23m	11h 29m				Mo, 16. Jan
Di, 17. Jan		18:51 – 04:57*	10h 06m	AN+ bis M↗		03:33	12:25	06:19	38m	06:58	39m	07:37	39m	08:16	8h 37m	16:54	39m	17:33	39m	18:12	38m	18:51	15h 21m	11h 27m				Di, 17. Jan
Mi, 18. Jan		18:52 – 06:18*	11h 25m	AN+ bis AN–		04:57	12:56	06:18	38m	06:57	39m	07:36	38m	08:15	8h 40m	16:55	38m	17:34	39m	18:14	38m	18:52	15h 18m	11h 25m				Mi, 18. Jan
Do, 19. Jan		18:54 – 06:17*	11h 23m	AN+ bis AN–		06:20	13:41	06:18	38m	06:56	39m	07:35	38m	08:14	8h 42m	16:57	38m	17:36	39m	18:15	38m	18:54	15h 16m	11h 23m				Do, 19. Jan
Fr, 20. Jan		18:55 – 06:16*	11h 21m	AN+ bis AN–		07:34	14:45	06:17	38m	06:55	39m	07:35	38m	08:13	8h 45m	16:59	38m	17:37	39m	18:16	38m	18:55	15h 13m	11h 21m				Fr, 20. Jan
Sa, 21. Jan		18:56 – 06:16*	11h 19m	AN+ bis AN–	●	08:31	16:07	06:16	38m	06:55	39m	07:34	38m	08:12	8h 47m	17:00	38m	17:39	39m	18:18	38m	18:56	15h 11m	11h 19m				Sa, 21. Jan
So, 22. Jan		18:58 – 06:15*	11h 17m	AN+ bis AN–		09:12	17:38	06:16	38m	06:54	39m	07:33	38m	08:11	8h 50m	17:02	38m	17:40	39m	18:19	38m	18:58	15h 08m	11h 17m				So, 22. Jan
Mo, 23. Jan		19:11 – 06:14*	11h 03m	M↘ bis AN–		09:41	19:11	06:15	38m	06:53	38m	07:32	38m	08:10	8h 53m	17:03	38m	17:42	38m	18:21	38m	18:59	15h 05m	11h 14m				Mo, 23. Jan
Di, 24. Jan		20:39 – 06:13*	9h 33m	M↘ bis AN–		10:02	20:39	06:14	38m	06:52	38m	07:31	38m	08:09	8h 55m	17:05	38m	17:43	38m	18:22	38m	19:00	15h 02m	11h 12m				Di, 24. Jan
Mi, 25. Jan		22:03 – 06:12*	8h 08m	M↘ bis AN–		10:19	22:03	06:13	38m	06:51	38m	07:30	38m	08:08	8h 58m	17:07	38m	17:45	38m	18:23	38m	19:02	15h 00m	11h 10m				Mi, 25. Jan
Do, 26. Jan		23:24 – 06:11*	6h 47m	M↘ bis AN–		10:34	23:24	06:12	38m	06:50	38m	07:29	37m	08:07	9h 01m	17:08	37m	17:46	38m	18:25	38m	19:03	14h 57m	11h 08m				Do, 26. Jan
Fr, 27. Jan		00:42* – 06:10*	5h 28m	M↘ bis AN–		10:49	—:—	06:11	38m	06:49	38m	07:28	37m	08:05	9h 04m	17:10	37m	17:48	38m	18:26	38m	19:04	14h 54m	11h 05m				Fr, 27. Jan
Sa, 28. Jan		01:58* – 06:09*	4h 10m	M↘ bis AN–	◐	11:04	00:42	06:10	38m	06:48	38m	07:27	37m	08:04	9h 07m	17:12	37m	17:49	38m	18:28	38m	19:06	14h 51m	11h 03m				Sa, 28. Jan
So, 29. Jan		03:13* – 06:08*	2h 54m	M↘ bis AN–		11:22	01:58	06:09	37m	06:47	38m	07:25	37m	08:03	9h 10m	17:13	37m	17:51	38m	18:29	38m	19:07	14h 48m	11h 00m				So, 29. Jan
Mo, 30. Jan		04:26* – 06:07*	1h 41m	M↘ bis AN–		11:44	03:13	06:08	37m	06:46	38m	07:24	37m	08:02	9h 13m	17:15	37m	17:52	38m	18:31	37m	19:09	14h 45m	10h 58m				Mo, 30. Jan
Di, 31. Jan		05:33* – 06:06*	32m	M↘ bis AN–		12:13	04:26	06:07	37m	06:45	38m	07:23	37m	08:00	9h 16m	17:17	37m	17:54	38m	18:32	37m	19:10	14h 42m	10h 55m				Di, 31. Jan
Mi, 1. Feb		—:——:—	–	Mond stört		12:50	05:33	06:06	37m	06:43	38m	07:22	37m	07:59	9h 19m	17:18	37m	17:56	38m	18:34	37m	19:12	14h 38m	10h 52m				Mi, 1. Feb
Do, 2. Feb		—:——:—	–	Mond stört		13:38	06:31	06:04	37m	06:42	38m	07:20	36m	07:57	9h 22m	17:20	37m	17:57	38m	18:35	37m	19:13	14h 35m	10h 50m				Do, 2. Feb
Fr, 3. Feb		—:——:—	–	Mond stört		14:36	07:18	06:03	37m	06:41	37m	07:19	36m	07:56	9h 26m	17:22	36m	17:59	38m	18:37	37m	19:15	14h 32m	10h 47m				Fr, 3. Feb
Sa, 4. Feb		—:——:—	–	Mond stört		15:42	07:54	06:02	37m	06:40	37m	07:18	36m	07:54	9h 29m	17:24	36m	18:00	37m	18:38	37m	19:16	14h 29m	10h 44m				Sa, 4. Feb
So, 5. Feb		—:——:—	–	Mond stört	○	16:52	08:21	06:01	37m	06:38	37m	07:16	36m	07:53	9h 32m	17:25	36m	18:02	37m	18:40	37m	19:18	14h 25m	10h 41m				So, 5. Feb
Mo, 6. Feb		—:——:—	–	Mond stört		18:02	08:42	05:59	37m	06:37	37m	07:15	36m	07:51	9h 35m	17:27	36m	18:04	37m	18:41	37m	19:19	14h 22m	10h 38m				Mo, 6. Feb
Di, 7. Feb		—:——:—	–	Mond stört		19:13	08:59	05:58	37m	06:36	37m	07:13	36m	07:50	9h 39m	17:29	36m	18:05	37m	18:43	37m	19:21	14h 19m	10h 35m				Di, 7. Feb
Mi, 8. Feb		19:22 – 20:23	1h 00m	AN+ bis M↗		20:23	09:13	05:56	37m	06:34	37m	07:12	36m	07:48	9h 42m	17:31	36m	18:07	37m	18:44	37m	19:22	14h 15m	10h 32m				Mi, 8. Feb
Do, 9. Feb		19:24 – 21:33	2h 09m	AN+ bis M↗		21:33	09:26	05:55	37m	06:33	37m	07:10	36m	07:46	9h 45m	17:32	36m	18:08	37m	18:46	37m	19:24	14h 12m	10h 29m				Do, 9. Feb
Fr, 10. Feb		19:25 – 22:44	3h 18m	AN+ bis M↗		22:44	09:38	05:54	37m	06:31	37m	07:09	36m	07:45	9h 49m	17:34	36m	18:10	37m	18:48	37m	19:25	14h 08m	10h 26m				Fr, 10. Feb
Sa, 11. Feb		19:27 – 23:58	4h 31m	AN+ bis M↗		23:58	09:52	05:52	37m	06:30	37m	07:07	35m	07:43	9h 52m	17:36	35m	18:12	37m	18:49	37m	19:27	14h 05m	10h 23m				Sa, 11. Feb
So, 12. Feb		19:28 – 01:15*	5h 47m	AN+ bis M↗		—:—	10:07	05:51	37m	06:28	37m	07:05	35m	07:41	9h 56m	17:37	35m	18:13	37m	18:51	37m	19:28	14h 01m	10h 20m				So, 12. Feb
Mo, 13. Feb		19:30 – 02:36*	7h 06m	AN+ bis M↗	◑	01:15	10:26	05:49	37m	06:26	37m	07:04	35m	07:39	9h 59m	17:39	35m	18:15	37m	18:52	37m	19:30	13h 58m	10h 17m				Mo, 13. Feb
Di, 14. Feb		19:31 – 03:58*	8h 26m	AN+ bis M↗		02:36	10:52	05:47	37m	06:25	37m	07:02	35m	07:38	10h 03m	17:41	35m	18:17	37m	18:54	37m	19:31	13h 54m	10h 14m				Di, 14. Feb
Mi, 15. Feb		19:33 – 05:14*	9h 40m	AN+ bis M↗		03:58	11:29	05:46	37m	06:23	37m	07:00	35m	07:36	10h 06m	17:43	35m	18:18	37m	18:55	37m	19:33	13h 51m	10h 11m				Mi, 15. Feb
Do, 16. Feb		19:34 – 05:42*	10h 07m	AN+ bis AN–		05:14	12:21	05:44	37m	06:21	37m	06:59	35m	07:34	10h 10m	17:44	35m	18:20	37m	18:57	37m	19:34	13h 47m	10h 07m				Do, 16. Feb
Fr, 17. Feb		19:36 – 05:41*	10h 04m	AN+ bis AN–		06:17	13:33	05:42	37m	06:20	37m	06:57	35m	07:32	10h 13m	17:46	35m	18:21	37m	18:59	37m	19:36	13h 44m	10h 04m				Fr, 17. Feb
Sa, 18. Feb		19:38 – 05:39*	10h 01m	AN+ bis AN–		07:04	14:59	05:41	37m	06:18	36m	06:55	35m	07:30	10h 17m	17:48	35m	18:23	37m	19:00	37m	19:38	13h 40m	10h 01m				Sa, 18. Feb
So, 19. Feb		19:39 – 05:37*	9h 57m	AN+ bis AN–		07:38	16:32	05:39	37m	06:16	36m	06:53	35m	07:28	10h 21m	17:50	35m	18:25	37m	19:02	37m	19:39	13h 36m	9h 57m				So, 19. 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-	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.	↗	↘	Astr.	Δt	Naut.	Δt	Bürg.	Δt	↗	Δt	↘	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Mo, 20. Feb		19:41 – 05:35*	9h 54m	AN_+ bis AN_-	●	08:02	18:04	05:37	37m	06:14	36m	06:51	35m	07:26	10h 24m	17:51	35m	18:26	36m	19:03	37m	19:41	13h 33m	9h 54m				Mo, 20. Feb
Di, 21. Feb		19:42 – 05:33*	9h 50m	AN_+ bis AN_-		08:21	19:32	05:35	37m	06:13	36m	06:50	35m	07:25	10h 28m	17:53	35m	18:28	36m	19:05	37m	19:42	13h 29m	9h 50m				Di, 21. Feb
Mi, 22. Feb		20:57 – 05:32*	8h 34m	$M_\searrow$ bis AN_-		08:37	20:57	05:33	37m	06:11	36m	06:48	34m	07:23	10h 32m	17:55	35m	18:30	36m	19:07	37m	19:44	13h 26m	9h 47m				Mi, 22. Feb
Do, 23. Feb		22:19 – 05:30*	7h 10m	$M_\searrow$ bis AN_-		08:52	22:19	05:32	37m	06:09	36m	06:46	34m	07:21	10h 35m	17:56	34m	18:31	36m	19:08	37m	19:46	13h 22m	9h 43m				Do, 23. Feb
Fr, 24. Feb		23:39 – 05:28*	5h 48m	$M_\searrow$ bis AN_-		09:08	23:39	05:30	37m	06:07	36m	06:44	34m	07:19	10h 39m	17:58	34m	18:33	36m	19:10	37m	19:47	13h 18m	9h 40m				Fr, 24. Feb
Sa, 25. Feb		00:58* – 05:26*	4h 28m	$M_\searrow$ bis AN_-		09:25	—:—	05:28	37m	06:05	36m	06:42	34m	07:17	10h 43m	18:00	34m	18:35	36m	19:11	37m	19:49	13h 14m	9h 36m				Sa, 25. Feb
So, 26. Feb		02:14* – 05:24*	3h 10m	$M_\searrow$ bis AN_-		09:46	00:58	05:26	37m	06:03	36m	06:40	34m	07:15	10h 46m	18:01	34m	18:36	36m	19:13	37m	19:51	13h 11m	9h 33m				So, 26. Feb
Mo, 27. Feb		03:24* – 05:22*	1h 57m	$M_\searrow$ bis AN_-	◐	10:12	02:14	05:24	37m	06:01	36m	06:38	34m	07:13	10h 50m	18:03	34m	18:38	36m	19:15	37m	19:52	13h 07m	9h 29m				Mo, 27. Feb
Di, 28. Feb		04:26* – 05:20*	53m	$M_\searrow$ bis AN_-		10:47	03:24	05:22	37m	05:59	36m	06:36	34m	07:11	10h 54m	18:05	34m	18:39	36m	19:16	37m	19:54	13h 03m	9h 25m				Di, 28. Feb
Mi, 1. Mär		05:17* – 05:18*	0m	$M_\searrow$ bis AN_-		11:31	04:26	05:20	37m	05:57	36m	06:34	34m	07:09	10h 57m	18:06	34m	18:41	36m	19:18	37m	19:56	13h 00m	9h 22m				Mi, 1. Mär
Do, 2. Mär		—:——:—	–	Mond stört		12:26	05:17	05:18	37m	05:55	36m	06:32	34m	07:07	11h 01m	18:08	34m	18:43	36m	19:19	37m	19:57	12h 56m	9h 18m				Do, 2. Mär
Fr, 3. Mär		—:——:—	–	Mond stört		13:30	05:56	05:16	37m	05:53	36m	06:30	34m	07:04	11h 05m	18:10	34m	18:44	36m	19:21	37m	19:59	12h 52m	9h 14m				Fr, 3. Mär
Sa, 4. Mär		—:——:—	–	Mond stört		14:39	06:26	05:14	37m	05:51	36m	06:28	34m	07:02	11h 09m	18:11	34m	18:46	36m	19:23	37m	20:01	12h 48m	9h 10m				Sa, 4. Mär
So, 5. Mär		—:——:—	–	Mond stört		15:50	06:48	05:11	37m	05:49	36m	06:26	34m	07:00	11h 12m	18:13	34m	18:48	36m	19:24	37m	20:02	12h 45m	9h 06m				So, 5. Mär
Mo, 6. Mär		—:——:—	–	Mond stört		17:02	07:06	05:09	37m	05:47	36m	06:24	34m	06:58	11h 16m	18:15	34m	18:49	36m	19:26	38m	20:04	12h 41m	9h 03m				Mo, 6. Mär
Di, 7. Mär		—:——:—	–	Mond stört	○	18:12	07:21	05:07	37m	05:45	36m	06:22	34m	06:56	11h 20m	18:16	34m	18:51	36m	19:28	38m	20:06	12h 37m	8h 59m				Di, 7. Mär
Mi, 8. Mär		—:——:—	–	Mond stört		19:23	07:34	05:05	38m	05:43	36m	06:20	34m	06:54	11h 24m	18:18	34m	18:52	36m	19:29	38m	20:07	12h 33m	8h 55m				Mi, 8. Mär
Do, 9. Mär		20:09 – 20:35	25m	AN_+ bis $M_\nearrow$		20:35	07:46	05:03	38m	05:41	36m	06:18	34m	06:52	11h 27m	18:20	34m	18:54	36m	19:31	38m	20:09	12h 30m	8h 51m				Do, 9. Mär
Fr, 10. Mär		20:11 – 21:48	1h 37m	AN_+ bis $M_\nearrow$		21:48	07:59	05:00	38m	05:39	36m	06:15	34m	06:50	11h 31m	18:21	34m	18:56	36m	19:33	38m	20:11	12h 26m	8h 47m				Fr, 10. Mär
Sa, 11. Mär		20:13 – 23:05	2h 52m	AN_+ bis $M_\nearrow$		23:05	08:13	04:58	38m	05:37	36m	06:13	34m	06:48	11h 35m	18:23	34m	18:57	36m	19:34	38m	20:13	12h 22m	8h 43m				Sa, 11. Mär
So, 12. Mär		20:14 – 00:24*	4h 09m	AN_+ bis $M_\nearrow$		—:—	08:31	04:56	38m	05:34	36m	06:11	34m	06:45	11h 39m	18:25	34m	18:59	36m	19:36	38m	20:14	12h 18m	8h 39m				So, 12. Mär
Mo, 13. Mär		20:16 – 01:45*	5h 28m	AN_+ bis $M_\nearrow$		00:24	08:54	04:54	38m	05:32	36m	06:09	34m	06:43	11h 42m	18:26	34m	19:01	37m	19:38	38m	20:16	12h 14m	8h 35m				Mo, 13. Mär
Di, 14. Mär		20:18 – 03:02*	6h 43m	AN_+ bis $M_\nearrow$		01:45	09:25	04:51	38m	05:30	36m	06:07	34m	06:41	11h 46m	18:28	34m	19:02	37m	19:39	38m	20:18	12h 11m	8h 30m				Di, 14. Mär
Mi, 15. Mär		20:20 – 04:08*	7h 48m	AN_+ bis $M_\nearrow$	◑	03:02	10:11	04:49	38m	05:28	37m	06:05	34m	06:39	11h 50m	18:29	34m	19:04	37m	19:41	38m	20:20	12h 07m	8h 26m				Mi, 15. Mär
Do, 16. Mär		20:22 – 04:44*	8h 22m	AN_+ bis AN_-		04:08	11:13	04:47	38m	05:25	37m	06:03	34m	06:37	11h 54m	18:31	34m	19:05	37m	19:43	39m	20:22	12h 03m	8h 22m				Do, 16. Mär
Fr, 17. Mär		20:23 – 04:42*	8h 18m	AN_+ bis AN_-		04:59	12:31	04:44	39m	05:23	37m	06:00	34m	06:35	11h 58m	18:33	34m	19:07	37m	19:44	39m	20:23	11h 59m	8h 18m				Fr, 17. Mär
Sa, 18. Mär		20:25 – 04:39*	8h 14m	AN_+ bis AN_-		05:36	13:59	04:42	39m	05:21	37m	05:58	34m	06:32	12h 01m	18:34	34m	19:09	37m	19:46	39m	20:25	11h 56m	8h 14m				Sa, 18. Mär
So, 19. Mär		20:27 – 04:37*	8h 09m	AN_+ bis AN_-		06:03	15:30	04:39	39m	05:19	37m	05:56	34m	06:30	12h 05m	18:36	34m	19:10	37m	19:48	39m	20:27	11h 52m	8h 09m				So, 19. Mär
Mo, 20. Mär		20:29 – 04:35*	8h 05m	AN_+ bis AN_-		06:24	16:59	04:37	39m	05:16	37m	05:54	34m	06:28	12h 09m	18:37	34m	19:12	37m	19:49	39m	20:29	11h 48m	8h 05m				Mo, 20. Mär
Di, 21. Mär		20:31 – 04:32*	8h 01m	AN_+ bis AN_-	●	06:41	18:25	04:35	39m	05:14	37m	05:52	34m	06:26	12h 13m	18:39	34m	19:13	37m	19:51	39m	20:31	11h 44m	8h 01m				Di, 21. Mär
Mi, 22. Mär		20:33 – 04:30*	7h 56m	AN_+ bis AN_-		06:56	19:49	04:32	39m	05:12	37m	05:49	34m	06:24	12h 16m	18:41	34m	19:15	37m	19:53	40m	20:33	11h 40m	7h 56m				Mi, 22. Mär
Do, 23. Mär		21:12 – 04:27*	7h 15m	$M_\searrow$ bis AN_-		07:11	21:12	04:30	39m	05:10	37m	05:47	34m	06:22	12h 20m	18:42	34m	19:17	37m	19:55	40m	20:35	11h 37m	7h 52m				Do, 23. Mär
Fr, 24. Mär		22:33 – 04:25*	5h 51m	$M_\searrow$ bis AN_-		07:27	22:33	04:27	40m	05:07	37m	05:45	34m	06:19	12h 24m	18:44	34m	19:18	37m	19:56	40m	20:37	11h 33m	7h 47m				Fr, 24. Mär
Sa, 25. Mär		23:53 – 04:22*	4h 28m	$M_\searrow$ bis AN_-		07:47	23:53	04:25	40m	05:05	37m	05:43	34m	06:17	12h 28m	18:45	34m	19:20	37m	19:58	40m	20:39	11h 29m	7h 43m				Sa, 25. Mär
So, 26. Mär	MESZ	02:09* – 05:19*	3h 10m	$M_\searrow$ bis AN_-		09:11	00:53	05:22	40m	06:03	37m	06:40	34m	07:15	12h 32m	19:47	34m	20:22	38m	21:00	40m	21:41	11h 25m	7h 38m				So, 26. Mär
Mo, 27. Mär	MESZ	03:16* – 05:17*	2h 00m	$M_\searrow$ bis AN_-		09:42	02:09	05:19	40m	06:00	38m	06:38	34m	07:13	12h 35m	19:49	34m	20:23	38m	21:02	41m	21:43	11h 22m	7h 34m				Mo, 27. Mär
Di, 28. Mär	MESZ	04:13* – 05:14*	1h 01m	$M_\searrow$ bis AN_-		10:23	03:16	05:17	40m	05:58	38m	06:36	34m	07:11	12h 39m	19:50	34m	20:25	38m	21:03	41m	21:45	11h 18m	7h 29m				Di, 28. Mär
Mi, 29. Mär	MESZ	04:56* – 05:12*	15m	$M_\searrow$ bis AN_-	◐	11:15	04:13	05:14	41m	05:55	38m	06:34	34m	07:08	12h 43m	19:52	34m	20:27	38m	21:05	41m	21:47	11h 14m	7h 25m				Mi, 29. Mär
Do, 30. Mär	MESZ	—:——:—	–	Mond stört		12:17	04:56	05:12	41m	05:53	38m	06:31	34m	07:06	12h 47m	19:53	34m	20:28	38m	21:07	41m	21:49	11h 10m	7h 20m				Do, 30. Mär
Fr, 31. Mär	MESZ	—:——:—	–	Mond stört		13:25	05:29	05:09	41m	05:51	38m	06:29	34m	07:04	12h 50m	19:55	34m	20:30	38m	21:09	41m	21:51	11h 06m	7h 15m				Fr, 31. Mär
Sa, 1. Apr	MESZ	—:——:—	–	Mond stört		14:35	05:54	05:06	41m	05:48	38m	06:27	34m	07:02	12h 54m	19:57	35m	20:32	38m	21:10	42m	21:53	11h 03m	7h 10m				Sa, 1. Apr
So, 2. Apr	MESZ	—:——:—	–	Mond stört		15:47	06:13	05:04	42m	05:46	38m	06:25	34m	07:00	12h 58m	19:58	35m	20:33	39m	21:12	42m	21:55	10h 59m	7h 06m				So, 2. Apr
Mo, 3. Apr	MESZ	—:——:—	–	Mond stört		16:58	06:28	05:01	42m	05:43	39m	06:23	35m	06:58	13h 02m	20:00	35m	20:35	39m	21:14	42m	21:57	10h 55m	7h 01m				Mo, 3. Apr
Di, 4. Apr	MESZ	—:——:—	–	Mond stört		18:09	06:41	04:58	42m	05:41	39m	06:20	35m	06:55	13h 05m	20:01	35m	20:37	39m	21:16	43m	21:59	10h 52m	6h 56m				Di, 4. Apr
Mi, 5. Apr	MESZ	—:——:—	–	Mond stört		19:21	06:54	04:56	43m	05:39	39m	06:18	35m	06:53	13h 09m	20:03	35m	20:38	39m	21:18	43m	22:01	10h 48m	6h 51m				Mi, 5. Apr
Do, 6. Apr	MESZ	—:——:—	–	Mond stört	○	20:35	07:06	04:53	43m	05:36	39m	06:16	35m	06:51	13h 13m	20:04	35m	20:40	39m	21:20	43m	22:03	10h 44m	6h 46m				Do, 6. Apr
Fr, 7. Apr	MESZ	—:——:—	–	Mond stört		21:52	07:20	04:50	43m	05:34	39m	06:14	35m	06:49	13h 16m	20:06	35m	20:42	39m	21:21	44m	22:06	10h 40m	6h 41m				Fr, 7. Apr
Sa, 8. Apr	MESZ	22:08 – 23:12	1h 04m	AN_+ bis $M_\nearrow$		23:12	07:37	04:47	44m	05:31	39m	06:11	35m	06:47	13h 20m	20:08	35m	20:43	40m	21:23	44m	22:08	10h 37m	6h 36m				Sa, 8. Apr
So, 9. Apr	MESZ	22:10 – 00:34*	2h 23m	AN_+ bis $M_\nearrow$		—:—	07:58	04:45	44m	05:29	40m	06:09	35m	06:45	13h 24m	20:09	35m	20:45	40m	21:25	44m	22:10	10h 33m	6h 31m				So, 9. Apr
Mo, 10. Apr	MESZ	22:12 – 01:53*	3h 40m	AN_+ bis $M_\nearrow$		00:34	08:27	04:42	44m	05:27	40m	06:07	35m	06:43	13h 28m	20:11	35m	20:47	40m	21:27	45m	22:12	10h 29m	6h 26m				Mo, 10. Apr

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

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

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

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

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

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