Mond- und Dämmerungstabelle 2024

für die visuelle Deep-Sky-Beobachtung

Osterholz-Scharmbeck 53.2269° N 8.7947° 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
2024	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung						Sonne			Ende der Abenddämmerung						Nacht	Astr. N.	Naut. dunkel und kein Mond			2024
	zone		Δt		Ph.	↗	↘	Astr.	Δt	Naut.	Δt	Bürg.	Δt	↗	Δt	↘	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Mo, 1. Jan		18:28 – 22:12	3h 43m	AN+ bis M↗		22:12	11:34	06:28	42m	07:10	43m	07:54	44m	08:38	7h 38m	16:17	44m	17:02	43m	17:46	42m	18:28	16h 21m	11h 59m				Mo, 1. Jan
Di, 2. Jan		18:29 – 23:23	4h 54m	AN+ bis M↗		23:23	11:43	06:28	42m	07:10	43m	07:54	44m	08:38	7h 39m	16:18	44m	17:03	43m	17:47	42m	18:29	16h 20m	11h 58m				Di, 2. Jan
Mi, 3. Jan		18:30 – 00:35*	6h 05m	AN+ bis M↗		—:—	11:51	06:28	42m	07:10	43m	07:54	44m	08:38	7h 41m	16:19	44m	17:04	43m	17:48	42m	18:30	16h 18m	11h 57m				Mi, 3. Jan
Do, 4. Jan		18:31 – 01:48*	7h 17m	AN+ bis M↗	◑	00:35	11:59	06:27	42m	07:10	43m	07:53	44m	08:38	7h 42m	16:20	44m	17:05	43m	17:49	42m	18:31	16h 17m	11h 56m				Do, 4. Jan
Fr, 5. Jan		18:32 – 03:06*	8h 33m	AN+ bis M↗		01:48	12:08	06:27	42m	07:09	43m	07:53	44m	08:38	7h 44m	16:22	44m	17:06	43m	17:50	42m	18:32	16h 15m	11h 55m				Fr, 5. Jan
Sa, 6. Jan		18:33 – 04:27*	9h 54m	AN+ bis M↗		03:06	12:20	06:27	42m	07:09	43m	07:53	44m	08:37	7h 45m	16:23	44m	17:07	43m	17:51	42m	18:33	16h 13m	11h 54m				Sa, 6. Jan
So, 7. Jan		18:34 – 05:52*	11h 17m	AN+ bis M↗		04:27	12:36	06:27	41m	07:09	43m	07:53	44m	08:37	7h 47m	16:24	44m	17:08	43m	17:52	42m	18:34	16h 11m	11h 52m				So, 7. Jan
Mo, 8. Jan		18:35 – 06:26*	11h 51m	AN+ bis AN–		05:52	13:00	06:27	41m	07:09	43m	07:52	44m	08:36	7h 49m	16:26	44m	17:10	43m	17:53	41m	18:35	16h 09m	11h 51m				Mo, 8. Jan
Di, 9. Jan		18:36 – 06:26*	11h 49m	AN+ bis AN–		07:15	13:37	06:26	41m	07:08	43m	07:52	43m	08:36	7h 51m	16:27	43m	17:11	43m	17:54	41m	18:36	16h 07m	11h 49m				Di, 9. Jan
Mi, 10. Jan		18:38 – 06:26*	11h 48m	AN+ bis AN–		08:27	14:35	06:26	41m	07:08	43m	07:51	43m	08:35	7h 53m	16:29	43m	17:12	43m	17:56	41m	18:38	16h 05m	11h 48m				Mi, 10. Jan
Do, 11. Jan		18:39 – 06:25*	11h 46m	AN+ bis AN–	●	09:20	15:55	06:26	41m	07:08	43m	07:51	43m	08:34	7h 55m	16:30	43m	17:14	43m	17:57	41m	18:39	16h 03m	11h 46m				Do, 11. Jan
Fr, 12. Jan		18:40 – 06:25*	11h 44m	AN+ bis AN–		09:55	17:28	06:25	41m	07:07	43m	07:50	43m	08:34	7h 57m	16:32	43m	17:15	43m	17:58	41m	18:40	16h 01m	11h 44m				Fr, 12. Jan
Sa, 13. Jan		19:06 – 06:24*	11h 18m	M↘ bis AN–		10:18	19:06	06:25	41m	07:07	43m	07:50	43m	08:33	8h 00m	16:33	43m	17:17	43m	18:00	41m	18:41	15h 58m	11h 43m				Sa, 13. Jan
So, 14. Jan		20:40 – 06:24*	9h 43m	M↘ bis AN–		10:35	20:40	06:24	41m	07:06	42m	07:49	43m	08:32	8h 02m	16:35	43m	17:18	42m	18:01	41m	18:43	15h 56m	11h 41m				So, 14. Jan
Mo, 15. Jan		22:11 – 06:23*	8h 12m	M↘ bis AN–		10:47	22:11	06:24	41m	07:05	42m	07:48	43m	08:31	8h 05m	16:36	43m	17:19	42m	18:02	41m	18:44	15h 53m	11h 39m				Mo, 15. Jan
Di, 16. Jan		23:39 – 06:22*	6h 43m	M↘ bis AN–		10:58	23:39	06:23	41m	07:05	42m	07:47	42m	08:30	8h 07m	16:38	42m	17:21	42m	18:04	41m	18:45	15h 51m	11h 37m				Di, 16. Jan
Mi, 17. Jan		01:06* – 06:22*	5h 16m	M↘ bis AN–		11:08	—:—	06:22	41m	07:04	42m	07:46	42m	08:29	8h 10m	16:40	42m	17:22	42m	18:05	41m	18:47	15h 48m	11h 35m				Mi, 17. Jan
Do, 18. Jan		02:32* – 06:21*	3h 48m	M↘ bis AN–	◐	11:19	01:06	06:22	41m	07:03	42m	07:46	42m	08:28	8h 13m	16:41	42m	17:24	42m	18:07	41m	18:48	15h 45m	11h 33m				Do, 18. Jan
Fr, 19. Jan		03:58* – 06:20*	2h 21m	M↘ bis AN–		11:33	02:32	06:21	41m	07:02	42m	07:45	42m	08:27	8h 16m	16:43	42m	17:26	42m	18:08	41m	18:49	15h 42m	11h 30m				Fr, 19. Jan
Sa, 20. Jan		05:22* – 06:19*	57m	M↘ bis AN–		11:51	03:58	06:20	41m	07:01	42m	07:44	42m	08:26	8h 18m	16:45	42m	17:27	42m	18:09	41m	18:51	15h 39m	11h 28m				Sa, 20. Jan
So, 21. Jan		—:— – —:—	–	Mond stört		12:18	05:22	06:19	41m	07:01	42m	07:43	42m	08:25	8h 21m	16:47	42m	17:29	42m	18:11	41m	18:52	15h 36m	11h 26m				So, 21. Jan
Mo, 22. Jan		—:— – —:—	–	Mond stört		12:56	06:38	06:18	41m	07:00	42m	07:42	41m	08:24	8h 24m	16:48	41m	17:30	42m	18:13	41m	18:54	15h 33m	11h 23m				Mo, 22. Jan
Di, 23. Jan		—:— – —:—	–	Mond stört		13:49	07:40	06:18	41m	06:59	41m	07:41	41m	08:22	8h 28m	16:50	41m	17:32	41m	18:14	41m	18:55	15h 30m	11h 21m				Di, 23. Jan
Mi, 24. Jan		—:— – —:—	–	Mond stört		14:55	08:25	06:17	40m	06:58	41m	07:39	41m	08:21	8h 31m	16:52	41m	17:34	41m	18:16	41m	18:57	15h 27m	11h 18m				Mi, 24. Jan
Do, 25. Jan		—:— – —:—	–	Mond stört	○	16:11	08:55	06:16	40m	06:56	41m	07:38	41m	08:20	8h 34m	16:54	41m	17:35	41m	18:17	40m	18:58	15h 24m	11h 16m				Do, 25. Jan
Fr, 26. Jan		—:— – —:—	–	Mond stört		17:28	09:16	06:14	40m	06:55	41m	07:37	41m	08:18	8h 37m	16:56	41m	17:37	41m	18:19	40m	19:00	15h 20m	11h 13m				Fr, 26. Jan
Sa, 27. Jan		—:— – —:—	–	Mond stört		18:44	09:30	06:13	40m	06:54	41m	07:36	41m	08:17	8h 40m	16:58	41m	17:39	41m	18:20	40m	19:01	15h 17m	11h 10m				Sa, 27. Jan
So, 28. Jan		19:03 – 19:58	54m	AN+ bis M↗		19:58	09:41	06:12	40m	06:53	41m	07:34	40m	08:15	8h 44m	17:00	40m	17:41	41m	18:22	40m	19:03	15h 14m	11h 08m				So, 28. Jan
Mo, 29. Jan		19:04 – 21:10	2h 05m	AN+ bis M↗		21:10	09:50	06:11	40m	06:52	41m	07:33	40m	08:14	8h 47m	17:02	40m	17:42	41m	18:24	40m	19:04	15h 10m	11h 05m				Mo, 29. Jan
Di, 30. Jan		19:06 – 22:21	3h 14m	AN+ bis M↗		22:21	09:58	06:10	40m	06:50	41m	07:32	40m	08:12	8h 51m	17:03	40m	17:44	41m	18:25	40m	19:06	15h 07m	11h 02m				Di, 30. Jan
Mi, 31. Jan		19:08 – 23:33	4h 25m	AN+ bis M↗		23:33	10:06	06:09	40m	06:49	41m	07:30	40m	08:11	8h 54m	17:05	40m	17:46	41m	18:27	40m	19:08	15h 03m	10h 59m				Mi, 31. Jan
Do, 1. Feb		19:09 – 00:47*	5h 37m	AN+ bis M↗		—:—	10:14	06:07	40m	06:48	40m	07:29	40m	08:09	8h 58m	17:07	40m	17:48	41m	18:29	40m	19:09	15h 00m	10h 56m				Do, 1. Feb
Fr, 2. Feb		19:11 – 02:05*	6h 54m	AN+ bis M↗		00:47	10:25	06:06	40m	06:46	40m	07:27	40m	08:07	9h 01m	17:09	40m	17:49	40m	18:30	40m	19:11	14h 56m	10h 53m				Fr, 2. Feb
Sa, 3. Feb		19:12 – 03:26*	8h 13m	AN+ bis M↗	◑	02:05	10:38	06:04	40m	06:45	40m	07:26	39m	08:06	9h 05m	17:11	39m	17:51	40m	18:32	40m	19:12	14h 52m	10h 50m				Sa, 3. Feb
So, 4. Feb		19:14 – 04:49*	9h 34m	AN+ bis M↗		03:26	10:57	06:03	40m	06:43	40m	07:24	39m	08:04	9h 09m	17:13	39m	17:53	40m	18:34	40m	19:14	14h 49m	10h 47m				So, 4. Feb
Mo, 5. Feb		19:16 – 06:00*	10h 44m	AN+ bis AN–		04:49	11:26	06:02	40m	06:42	40m	07:23	39m	08:02	9h 12m	17:15	39m	17:55	40m	18:35	40m	19:16	14h 45m	10h 44m				Mo, 5. Feb
Di, 6. Feb		19:17 – 05:59*	10h 41m	AN+ bis AN–		06:06	12:13	06:00	40m	06:40	40m	07:21	39m	08:00	9h 16m	17:17	39m	17:57	40m	18:37	40m	19:17	14h 41m	10h 41m				Di, 6. Feb
Mi, 7. Feb		19:19 – 05:57*	10h 37m	AN+ bis AN–		07:08	13:21	05:59	40m	06:39	40m	07:19	39m	07:59	9h 20m	17:19	39m	17:58	40m	18:39	40m	19:19	14h 37m	10h 37m				Mi, 7. Feb
Do, 8. Feb		19:21 – 05:55*	10h 34m	AN+ bis AN–		07:51	14:49	05:57	40m	06:37	40m	07:17	39m	07:57	9h 24m	17:21	39m	18:00	40m	18:41	40m	19:21	14h 33m	10h 34m				Do, 8. Feb
Fr, 9. Feb		19:23 – 05:54*	10h 31m	AN+ bis AN–	●	08:19	16:27	05:55	40m	06:36	40m	07:16	39m	07:55	9h 28m	17:23	39m	18:02	40m	18:42	40m	19:23	14h 30m	10h 31m				Fr, 9. Feb
Sa, 10. Feb		19:24 – 05:52*	10h 27m	AN+ bis AN–		08:38	18:06	05:54	40m	06:34	40m	07:14	38m	07:53	9h 31m	17:25	38m	18:04	40m	18:44	40m	19:24	14h 26m	10h 27m				Sa, 10. Feb
So, 11. Feb		19:42 – 05:50*	10h 08m	M↘ bis AN–		08:52	19:42	05:52	40m	06:32	40m	07:12	38m	07:51	9h 35m	17:27	38m	18:06	40m	18:46	40m	19:26	14h 22m	10h 24m				So, 11. Feb
Mo, 12. Feb		21:15 – 05:48*	8h 33m	M↘ bis AN–		09:04	21:15	05:50	40m	06:30	40m	07:10	38m	07:49	9h 39m	17:29	38m	18:07	40m	18:48	40m	19:28	14h 18m	10h 20m				Mo, 12. Feb
Di, 13. Feb		22:46 – 05:47*	7h 01m	M↘ bis AN–		09:15	22:46	05:48	40m	06:29	39m	07:09	38m	07:47	9h 43m	17:31	38m	18:09	40m	18:49	40m	19:30	14h 14m	10h 17m				Di, 13. Feb
Mi, 14. Feb		00:15* – 05:45*	5h 29m	M↘ bis AN–		09:26	—:—	05:47	40m	06:27	39m	07:07	38m	07:45	9h 47m	17:33	38m	18:11	39m	18:51	40m	19:31	14h 10m	10h 13m				Mi, 14. Feb
Do, 15. Feb		01:45* – 05:43*	3h 58m	M↘ bis AN–		09:39	00:15	05:45	40m	06:25	39m	07:05	38m	07:43	9h 51m	17:35	38m	18:13	39m	18:53	40m	19:33	14h 06m	10h 09m				Do, 15. Feb
Fr, 16. Feb		03:11* – 05:41*	2h 29m	M↘ bis AN–	◐	09:56	01:45	05:43	40m	06:23	39m	07:03	38m	07:41	9h 55m	17:37	38m	18:15	39m	18:55	40m	19:35	14h 02m	10h 06m				Fr, 16. Feb
Sa, 17. Feb		04:31* – 05:39*	1h 08m	M↘ bis AN–		10:19	03:11	05:41	40m	06:21	39m	07:01	38m	07:39	9h 59m	17:39	38m	18:17	39m	18:56	40m	19:37	13h 58m	10h 02m				Sa, 17. Feb
So, 18. Feb		05:37* – 05:37*	0m	M↘ bis AN–		10:53	04:31	05:39	40m	06:19	39m	06:59	37m	07:37	10h 03m	17:41	38m	18:19	39m	18:58	40m	19:38	13h 54m	9h 58m				So, 18. Feb
Mo, 19. Feb		—:— – —:—	–	Mond stört		11:41	05:37	05:37	40m	06:17	39m	06:57	37m	07:35	10h 07m	17:42	37m	18:20	39m	19:00	40m	19:40	13h 50m	9h 55m				Mo, 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
2024	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung						Sonne			Ende der Abenddämmerung						Nacht	Astr. N.	Naut. dunkel und kein Mond			2024
	zone		Δt		Ph.	↗	↘	Astr.	Δt	Naut.	Δt	Bürg.	Δt	↗	Δt	↘	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Di, 20. Feb		—:——:—	–	Mond stört		12:44	06:26	05:35	40m	06:15	39m	06:55	37m	07:33	10h 11m	17:44	37m	18:22	39m	19:02	40m	19:42	13h 46m	9h 51m				Di, 20. Feb
Mi, 21. Feb		—:——:—	–	Mond stört		13:57	07:00	05:33	40m	06:13	39m	06:53	37m	07:30	10h 15m	17:46	37m	18:24	39m	19:04	40m	19:44	13h 41m	9h 47m				Mi, 21. Feb
Do, 22. Feb		—:——:—	–	Mond stört		15:14	07:23	05:31	40m	06:11	39m	06:51	37m	07:28	10h 19m	17:48	37m	18:26	39m	19:05	40m	19:46	13h 37m	9h 43m				Do, 22. Feb
Fr, 23. Feb		—:——:—	–	Mond stört		16:31	07:38	05:29	40m	06:09	39m	06:49	37m	07:26	10h 24m	17:50	37m	18:28	39m	19:07	40m	19:48	13h 33m	9h 39m				Fr, 23. Feb
Sa, 24. Feb		—:——:—	–	Mond stört	○	17:45	07:50	05:27	40m	06:07	39m	06:47	37m	07:24	10h 28m	17:52	37m	18:30	39m	19:09	40m	19:49	13h 29m	9h 35m				Sa, 24. Feb
So, 25. Feb		—:——:—	–	Mond stört		18:58	07:59	05:25	40m	06:05	39m	06:44	37m	07:22	10h 32m	17:54	37m	18:31	39m	19:11	40m	19:51	13h 25m	9h 31m				So, 25. Feb
Mo, 26. Feb		19:53 – 20:09	16m	AN+ bis M↗		20:09	08:07	05:23	40m	06:03	39m	06:42	37m	07:19	10h 36m	17:56	37m	18:33	39m	19:13	40m	19:53	13h 21m	9h 27m				Mo, 26. Feb
Di, 27. Feb		19:55 – 21:21	1h 25m	AN+ bis M↗		21:21	08:15	05:20	40m	06:01	39m	06:40	37m	07:17	10h 40m	17:58	37m	18:35	39m	19:15	40m	19:55	13h 17m	9h 23m				Di, 27. Feb
Mi, 28. Feb		19:57 – 22:34	2h 37m	AN+ bis M↗		22:34	08:23	05:18	40m	05:59	39m	06:38	37m	07:15	10h 44m	18:00	37m	18:37	39m	19:16	40m	19:57	13h 12m	9h 19m				Mi, 28. Feb
Do, 29. Feb		19:59 – 23:50	3h 51m	AN+ bis M↗		23:50	08:32	05:16	40m	05:56	39m	06:36	37m	07:13	10h 48m	18:02	37m	18:39	39m	19:18	40m	19:59	13h 08m	9h 14m				Do, 29. Feb
Fr, 1. Mär		20:01 – 01:09*	5h 08m	AN+ bis M↗		—:—	08:44	05:14	40m	05:54	39m	06:33	36m	07:10	10h 53m	18:04	37m	18:41	39m	19:20	40m	20:01	13h 04m	9h 10m				Fr, 1. Mär
Sa, 2. Mär		20:03 – 02:30*	6h 27m	AN+ bis M↗		01:09	09:00	05:11	40m	05:52	39m	06:31	36m	07:08	10h 57m	18:05	37m	18:42	39m	19:22	40m	20:03	13h 00m	9h 06m				Sa, 2. Mär
So, 3. Mär		20:05 – 03:48*	7h 43m	AN+ bis M↗	◑	02:30	09:23	05:09	40m	05:50	39m	06:29	36m	07:06	11h 01m	18:07	36m	18:44	39m	19:24	40m	20:05	12h 56m	9h 02m				So, 3. Mär
Mo, 4. Mär		20:06 – 04:55*	8h 48m	AN+ bis M↗		03:48	10:00	05:07	40m	05:47	39m	06:27	36m	07:04	11h 05m	18:09	36m	18:46	39m	19:26	40m	20:06	12h 52m	8h 57m				Mo, 4. Mär
Di, 5. Mär		20:08 – 05:02*	8h 53m	AN+ bis AN−		04:55	10:56	05:04	40m	05:45	39m	06:24	36m	07:01	11h 09m	18:11	36m	18:48	39m	19:27	40m	20:08	12h 47m	8h 53m				Di, 5. Mär
Mi, 6. Mär		20:10 – 04:59*	8h 49m	AN+ bis AN−		05:45	12:13	05:02	40m	05:43	39m	06:22	36m	06:59	11h 14m	18:13	36m	18:50	39m	19:29	41m	20:10	12h 43m	8h 49m				Mi, 6. Mär
Do, 7. Mär		20:12 – 04:57*	8h 44m	AN+ bis AN−		06:18	13:46	04:59	40m	05:40	39m	06:20	36m	06:57	11h 18m	18:15	36m	18:52	39m	19:31	41m	20:12	12h 39m	8h 44m				Do, 7. Mär
Fr, 8. Mär		20:14 – 04:54*	8h 40m	AN+ bis AN−		06:41	15:24	04:57	41m	05:38	39m	06:18	36m	06:54	11h 22m	18:17	36m	18:53	39m	19:33	41m	20:14	12h 35m	8h 40m				Fr, 8. Mär
Sa, 9. Mär		20:16 – 04:52*	8h 35m	AN+ bis AN−		06:57	17:02	04:54	41m	05:36	39m	06:15	36m	06:52	11h 26m	18:19	36m	18:55	39m	19:35	41m	20:16	12h 30m	8h 35m				Sa, 9. Mär
So, 10. Mär		20:18 – 04:49*	8h 31m	AN+ bis AN−	●	07:09	18:37	04:52	41m	05:33	39m	06:13	36m	06:49	11h 30m	18:20	36m	18:57	39m	19:37	41m	20:18	12h 26m	8h 31m				So, 10. Mär
Mo, 11. Mär		20:20 – 04:47*	8h 26m	AN+ bis AN−		07:20	20:12	04:49	41m	05:31	39m	06:10	36m	06:47	11h 35m	18:22	36m	18:59	39m	19:39	41m	20:20	12h 22m	8h 26m				Mo, 11. Mär
Di, 12. Mär		21:45 – 04:44*	6h 58m	M↘ bis AN−		07:31	21:45	04:47	41m	05:28	39m	06:08	36m	06:45	11h 39m	18:24	36m	19:01	39m	19:41	41m	20:22	12h 18m	8h 21m				Di, 12. Mär
Mi, 13. Mär		23:19 – 04:42*	5h 22m	M↘ bis AN−		07:44	23:19	04:44	41m	05:26	39m	06:06	36m	06:42	11h 43m	18:26	36m	19:03	39m	19:43	42m	20:25	12h 14m	8h 17m				Mi, 13. Mär
Do, 14. Mär		00:51* – 04:39*	3h 48m	M↘ bis AN−		07:59	—:—	04:42	41m	05:24	39m	06:03	36m	06:40	11h 47m	18:28	36m	19:05	39m	19:44	42m	20:27	12h 09m	8h 12m				Do, 14. Mär
Fr, 15. Mär		02:17* – 04:36*	2h 19m	M↘ bis AN−		08:20	00:51	04:39	42m	05:21	39m	06:01	36m	06:38	11h 52m	18:30	36m	19:06	39m	19:46	42m	20:29	12h 05m	8h 07m				Fr, 15. Mär
Sa, 16. Mär		03:30* – 04:34*	1h 03m	M↘ bis AN−		08:50	02:17	04:36	42m	05:19	39m	05:59	36m	06:35	11h 56m	18:31	36m	19:08	40m	19:48	42m	20:31	12h 01m	8h 02m				Sa, 16. Mär
So, 17. Mär		04:26* – 04:31*	4m	M↘ bis AN−	◐	09:34	03:30	04:34	42m	05:16	39m	05:56	36m	06:33	12h 00m	18:33	36m	19:10	40m	19:50	42m	20:33	11h 57m	7h 57m				So, 17. Mär
Mo, 18. Mär		—:——:—	–	Mond stört		10:34	04:26	04:31	42m	05:14	40m	05:54	36m	06:30	12h 04m	18:35	36m	19:12	40m	19:52	42m	20:35	11h 52m	7h 53m				Mo, 18. Mär
Di, 19. Mär		—:——:—	–	Mond stört		11:45	05:04	04:28	42m	05:11	40m	05:51	36m	06:28	12h 08m	18:37	36m	19:14	40m	19:54	43m	20:37	11h 48m	7h 48m				Di, 19. Mär
Mi, 20. Mär		—:——:—	–	Mond stört		13:02	05:30	04:25	43m	05:08	40m	05:49	36m	06:26	12h 13m	18:39	36m	19:16	40m	19:56	43m	20:40	11h 44m	7h 43m				Mi, 20. Mär
Do, 21. Mär		—:——:—	–	Mond stört		14:18	05:47	04:23	43m	05:06	40m	05:46	36m	06:23	12h 17m	18:41	36m	19:18	40m	19:58	43m	20:42	11h 40m	7h 38m				Do, 21. Mär
Fr, 22. Mär		—:——:—	–	Mond stört		15:33	06:00	04:20	43m	05:03	40m	05:44	36m	06:21	12h 21m	18:42	37m	19:19	40m	20:00	43m	20:44	11h 35m	7h 33m				Fr, 22. Mär
Sa, 23. Mär		—:——:—	–	Mond stört		16:46	06:09	04:17	43m	05:01	40m	05:41	36m	06:18	12h 25m	18:44	37m	19:21	40m	20:02	44m	20:46	11h 31m	7h 27m				Sa, 23. Mär
So, 24. Mär		—:——:—	–	Mond stört		17:58	06:17	04:14	44m	04:58	40m	05:39	36m	06:16	12h 30m	18:46	37m	19:23	40m	20:04	44m	20:49	11h 27m	7h 22m				So, 24. Mär
Mo, 25. Mär		—:——:—	–	Mond stört	○	19:10	06:25	04:11	44m	04:56	40m	05:36	37m	06:14	12h 34m	18:48	37m	19:25	41m	20:06	44m	20:51	11h 23m	7h 17m				Mo, 25. Mär
Di, 26. Mär		—:——:—	–	Mond stört		20:23	06:32	04:08	44m	04:53	41m	05:34	37m	06:11	12h 38m	18:50	37m	19:27	41m	20:08	44m	20:53	11h 19m	7h 12m				Di, 26. Mär
Mi, 27. Mär		20:55 – 21:38	42m	AN+ bis M↗		21:38	06:41	04:05	44m	04:50	41m	05:32	37m	06:09	12h 42m	18:51	37m	19:29	41m	20:10	45m	20:55	11h 14m	7h 06m				Mi, 27. Mär
Do, 28. Mär		20:58 – 22:57	1h 58m	AN+ bis M↗		22:57	06:52	04:02	45m	04:48	41m	05:29	37m	06:06	12h 46m	18:53	37m	19:31	41m	20:12	45m	20:58	11h 10m	7h 01m				Do, 28. Mär
Fr, 29. Mär		21:00 – 00:17*	3h 16m	AN+ bis M↗		—:—	07:06	03:59	45m	04:45	41m	05:27	37m	06:04	12h 51m	18:55	37m	19:33	41m	20:14	45m	21:00	11h 06m	6h 56m				Fr, 29. Mär
Sa, 30. Mär		21:03 – 01:36*	4h 33m	AN+ bis M↗		00:17	07:26	03:56	45m	04:42	41m	05:24	37m	06:02	12h 55m	18:57	37m	19:34	41m	20:16	46m	21:03	11h 02m	6h 50m				Sa, 30. Mär
So, 31. Mär	MESZ	22:05 – 03:46*	5h 40m	AN+ bis M↗		02:36	08:57	04:53	46m	05:40	41m	06:22	37m	06:59	12h 59m	19:59	37m	20:36	42m	21:19	46m	22:05	10h 58m	6h 45m				So, 31. Mär
Mo, 1. Apr	MESZ	22:08 – 04:41*	6h 33m	AN+ bis M↗		03:46	09:45	04:50	46m	05:37	42m	06:19	37m	06:57	13h 03m	20:00	37m	20:38	42m	21:21	46m	22:08	10h 53m	6h 39m				Mo, 1. Apr
Di, 2. Apr	MESZ	22:10 – 04:44*	6h 34m	AN+ bis AN−	◑	04:41	10:52	04:47	46m	05:34	42m	06:17	37m	06:54	13h 07m	20:02	37m	20:40	42m	21:23	47m	22:10	10h 49m	6h 34m				Di, 2. Apr
Mi, 3. Apr	MESZ	22:13 – 04:41*	6h 28m	AN+ bis AN−		05:19	12:17	04:44	47m	05:32	42m	06:14	37m	06:52	13h 12m	20:04	38m	20:42	42m	21:25	47m	22:13	10h 45m	6h 28m				Mi, 3. Apr
Do, 4. Apr	MESZ	22:15 – 04:38*	6h 22m	AN+ bis AN−		05:44	13:49	04:41	47m	05:29	42m	06:12	37m	06:50	13h 16m	20:06	38m	20:44	43m	21:27	48m	22:15	10h 41m	6h 22m				Do, 4. Apr
Fr, 5. Apr	MESZ	22:18 – 04:35*	6h 16m	AN+ bis AN−		06:02	15:24	04:38	48m	05:26	42m	06:09	38m	06:47	13h 20m	20:08	38m	20:46	43m	21:29	48m	22:18	10h 37m	6h 16m				Fr, 5. Apr
Sa, 6. Apr	MESZ	22:21 – 04:32*	6h 10m	AN+ bis AN−		06:15	16:59	04:35	48m	05:23	43m	06:07	38m	06:45	13h 24m	20:09	38m	20:48	43m	21:31	49m	22:21	10h 32m	6h 10m				Sa, 6. Apr
So, 7. Apr	MESZ	22:23 – 04:28*	6h 05m	AN+ bis AN−		06:26	18:33	04:32	49m	05:21	43m	06:04	38m	06:42	13h 28m	20:11	38m	20:50	43m	21:34	49m	22:23	10h 28m	6h 05m				So, 7. Apr
Mo, 8. Apr	MESZ	22:26 – 04:25*	5h 59m	AN+ bis AN−	●	06:37	20:07	04:28	49m	05:18	43m	06:02	38m	06:40	13h 32m	20:13	38m	20:52	44m	21:36	50m	22:26	10h 24m	5h 59m				Mo, 8. Apr
Di, 9. Apr	MESZ	22:29 – 04:22*	5h 52m	AN+ bis AN−		06:48	21:42	04:25	50m	05:15	43m	05:59	38m	06:38	13h 37m	20:15	38m	20:54	44m	21:38	50m	22:29	10h 20m	5h 52m				Di, 9. 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
2024	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung						Sonne			Ende der Abenddämmerung						Nacht	Astr. N.	Naut. dunkel und kein Mond			2024
	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*		
Mi, 10. Apr	MESZ	23:17 – 04:18*	*5h 01m*	M↘ *bis* AN_		07:02	23:17	04:22	*50m*	05:12	*44m*	05:57	*38m*	06:35	*13h 41m*	20:17	*38m*	20:56	*44m*	21:40	*51m*	22:32	*10h 16m*	*5h 46m*				Mi, 10. Apr
Do, 11. Apr	MESZ	00:50* – 04:15*	*3h 25m*	M↘ *bis* AN_		07:20	—:—	04:18	*51m*	05:10	*44m*	05:54	*38m*	06:33	*13h 45m*	20:19	*39m*	20:58	*44m*	21:43	*51m*	22:34	*10h 12m*	*5h 40m*				Do, 11. Apr
Fr, 12. Apr	MESZ	02:13* – 04:12*	*1h 58m*	M↘ *bis* AN_		07:47	00:50	04:15	*51m*	05:07	*44m*	05:52	*39m*	06:31	*13h 49m*	20:20	*39m*	21:00	*45m*	21:45	*52m*	22:37	*10h 08m*	*5h 34m*				Fr, 12. Apr
Sa, 13. Apr	MESZ	03:18* – 04:08*	*49m*	M↘ *bis* AN_		08:26	02:13	04:12	*52m*	05:04	*45m*	05:49	*39m*	06:29	*13h 53m*	20:22	*39m*	21:02	*45m*	21:47	*53m*	22:40	*10h 04m*	*5h 27m*				Sa, 13. Apr
So, 14. Apr	MESZ	04:04* – 04:05*	*0m*	M↘ *bis* AN_		09:21	03:18	04:08	*53m*	05:01	*45m*	05:47	*39m*	06:26	*13h 57m*	20:24	*39m*	21:04	*45m*	21:49	*53m*	22:43	*9h 59m*	*5h 21m*				So, 14. Apr
Mo, 15. Apr	MESZ	—:——:—	–	Mond stört	◐	10:30	04:04	04:05	*53m*	04:59	*45m*	05:44	*39m*	06:24	*14h 01m*	20:26	*39m*	21:06	*46m*	21:52	*54m*	22:46	*9h 55m*	*5h 14m*				Mo, 15. Apr
Di, 16. Apr	MESZ	—:——:—	–	Mond stört		11:46	04:34	04:01	*54m*	04:56	*46m*	05:42	*39m*	06:22	*14h 05m*	20:28	*39m*	21:08	*46m*	21:54	*55m*	22:49	*9h 51m*	*5h 08m*				Di, 16. Apr
Mi, 17. Apr	MESZ	—:——:—	–	Mond stört		13:04	04:54	03:58	*55m*	04:53	*46m*	05:39	*39m*	06:19	*14h 09m*	20:29	*40m*	21:10	*46m*	21:56	*56m*	22:53	*9h 47m*	*5h 01m*				Mi, 17. Apr
Do, 18. Apr	MESZ	—:——:—	–	Mond stört		14:20	05:08	03:54	*56m*	04:50	*46m*	05:37	*40m*	06:17	*14h 14m*	20:31	*40m*	21:12	*47m*	21:59	*56m*	22:56	*9h 43m*	*4h 54m*				Do, 18. Apr
Fr, 19. Apr	MESZ	—:——:—	–	Mond stört		15:34	05:19	03:50	*56m*	04:47	*47m*	05:35	*40m*	06:15	*14h 18m*	20:33	*40m*	21:14	*47m*	22:01	*57m*	22:59	*9h 39m*	*4h 47m*				Fr, 19. Apr
Sa, 20. Apr	MESZ	—:——:—	–	Mond stört		16:46	05:27	03:47	*57m*	04:45	*47m*	05:32	*40m*	06:13	*14h 22m*	20:35	*40m*	21:16	*48m*	22:04	*58m*	23:02	*9h 35m*	*4h 40m*				Sa, 20. Apr
So, 21. Apr	MESZ	—:——:—	–	Mond stört		17:58	05:35	03:43	*58m*	04:42	*48m*	05:30	*40m*	06:10	*14h 26m*	20:37	*40m*	21:18	*48m*	22:06	*59m*	23:06	*9h 31m*	*4h 33m*				So, 21. Apr
Mo, 22. Apr	MESZ	—:——:—	–	Mond stört		19:10	05:42	03:39	*59m*	04:39	*48m*	05:27	*40m*	06:08	*14h 30m*	20:38	*41m*	21:20	*48m*	22:08	*1h 00m*	23:09	*9h 27m*	*4h 26m*				Mo, 22. Apr
Di, 23. Apr	MESZ	—:——:—	–	Mond stört		20:25	05:51	03:35	*1h 00m*	04:36	*48m*	05:25	*41m*	06:06	*14h 34m*	20:40	*41m*	21:22	*49m*	22:11	*1h 01m*	23:13	*9h 23m*	*4h 18m*				Di, 23. Apr
Mi, 24. Apr	MESZ	—:——:—	–	Mond stört	○	21:43	06:00	03:32	*1h 01m*	04:33	*49m*	05:23	*41m*	06:04	*14h 37m*	20:42	*41m*	21:24	*49m*	22:13	*1h 02m*	23:16	*9h 19m*	*4h 11m*				Mi, 24. Apr
Do, 25. Apr	MESZ	—:——:—	–	Mond stört		23:04	06:13	03:28	*1h 02m*	04:30	*49m*	05:20	*41m*	06:02	*14h 41m*	20:44	*41m*	21:26	*50m*	22:16	*1h 04m*	23:20	*9h 15m*	*4h 03m*				Do, 25. Apr
Fr, 26. Apr	MESZ	23:24 – 00:25*	*1h 00m*	AN+ *bis* M↗		—:—	06:32	03:24	*1h 04m*	04:28	*50m*	05:18	*41m*	06:00	*14h 45m*	20:46	*42m*	21:28	*50m*	22:18	*1h 05m*	23:24	*9h 12m*	*3h 55m*				Fr, 26. Apr
Sa, 27. Apr	MESZ	23:28 – 01:38*	*2h 10m*	AN+ *bis* M↗		00:25	06:59	03:19	*1h 05m*	04:25	*50m*	05:16	*42m*	05:58	*14h 49m*	20:47	*42m*	21:30	*51m*	22:21	*1h 06m*	23:28	*9h 08m*	*3h 47m*				Sa, 27. Apr
So, 28. Apr	MESZ	23:32 – 02:38*	*3h 05m*	AN+ *bis* M↗		01:38	07:42	03:15	*1h 06m*	04:22	*51m*	05:13	*42m*	05:56	*14h 53m*	20:49	*42m*	21:32	*51m*	22:23	*1h 08m*	23:32	*9h 04m*	*3h 39m*				So, 28. Apr
Mo, 29. Apr	MESZ	23:36 – 03:06*	*3h 30m*	AN+ *bis* AN_		02:38	08:43	03:11	*1h 08m*	04:19	*51m*	05:11	*42m*	05:54	*14h 57m*	20:51	*42m*	21:34	*52m*	22:26	*1h 09m*	23:36	*9h 00m*	*3h 30m*				Mo, 29. Apr
Di, 30. Apr	MESZ	23:40 – 03:02*	*3h 21m*	AN+ *bis* AN_		03:20	10:01	03:06	*1h 09m*	04:16	*52m*	05:09	*42m*	05:51	*15h 01m*	20:53	*43m*	21:36	*52m*	22:29	*1h 11m*	23:40	*8h 56m*	*3h 21m*				Di, 30. Apr
Mi, 1. Mai	MESZ	23:45 – 02:57*	*3h 12m*	AN+ *bis* AN_	◑	03:48	11:29	03:02	*1h 11m*	04:14	*52m*	05:06	*43m*	05:49	*15h 04m*	20:54	*43m*	21:38	*53m*	22:31	*1h 13m*	23:45	*8h 53m*	*3h 12m*				Mi, 1. Mai
Do, 2. Mai	MESZ	23:49 – 02:52*	*3h 03m*	AN+ *bis* AN_		04:08	13:01	02:57	*1h 13m*	04:11	*53m*	05:04	*43m*	05:47	*15h 08m*	20:56	*43m*	21:40	*53m*	22:34	*1h 15m*	23:49	*8h 49m*	*3h 03m*				Do, 2. Mai
Fr, 3. Mai	MESZ	23:54 – 02:47*	*2h 53m*	AN+ *bis* AN_		04:22	14:32	02:52	*1h 15m*	04:08	*53m*	05:02	*43m*	05:46	*15h 12m*	20:58	*43m*	21:42	*54m*	22:36	*1h 17m*	23:54	*8h 45m*	*2h 53m*				Fr, 3. Mai
Sa, 4. Mai	MESZ	23:59 – 02:42*	*2h 43m*	AN+ *bis* AN_		04:33	16:03	02:47	*1h 17m*	04:05	*54m*	05:00	*43m*	05:44	*15h 16m*	21:00	*44m*	21:44	*55m*	22:39	*1h 20m*	23:59	*8h 41m*	*2h 43m*				Sa, 4. Mai
So, 5. Mai	MESZ	00:05* – 02:37*	*2h 32m*	AN+ *bis* AN_		04:44	17:33	02:42	*1h 20m*	04:02	*55m*	04:57	*44m*	05:42	*15h 19m*	21:01	*44m*	21:46	*55m*	22:42	*1h 22m*	00:05*	*8h 38m*	*2h 32m*				So, 5. Mai
Mo, 6. Mai	MESZ	00:10* – 02:31*	*2h 20m*	AN+ *bis* AN_		04:54	19:06	02:37	*1h 22m*	03:59	*55m*	04:55	*44m*	05:40	*15h 23m*	21:03	*44m*	21:48	*56m*	22:44	*1h 25m*	00:10*	*8h 34m*	*2h 20m*				Mo, 6. Mai
Di, 7. Mai	MESZ	00:16* – 02:25*	*2h 08m*	AN+ *bis* AN_		05:07	20:40	02:31	*1h 25m*	03:57	*56m*	04:53	*44m*	05:38	*15h 27m*	21:05	*45m*	21:50	*57m*	22:47	*1h 29m*	00:16*	*8h 31m*	*2h 08m*				Di, 7. Mai
Mi, 8. Mai	MESZ	00:23* – 02:18*	*1h 55m*	AN+ *bis* AN_	●	05:22	22:15	02:25	*1h 29m*	03:54	*57m*	04:51	*45m*	05:36	*15h 30m*	21:07	*45m*	21:52	*57m*	22:50	*1h 33m*	00:23*	*8h 27m*	*1h 55m*				Mi, 8. Mai
Do, 9. Mai	MESZ	00:30* – 02:11*	*1h 40m*	AN+ *bis* AN_		05:45	23:45	02:18	*1h 32m*	03:51	*57m*	04:49	*45m*	05:34	*15h 34m*	21:08	*45m*	21:54	*58m*	22:53	*1h 37m*	00:30*	*8h 24m*	*1h 40m*				Do, 9. Mai
Fr, 10. Mai	MESZ	01:01* – 02:02*	*1h 01m*	M↘ *bis* AN_		06:17	—:—	02:11	*1h 37m*	03:48	*58m*	04:47	*45m*	05:32	*15h 37m*	21:10	*46m*	21:56	*59m*	22:55	*1h 43m*	00:39*	*8h 20m*	*1h 23m*				Fr, 10. Mai
Sa, 11. Mai	MESZ	—:——:—	–	Mond stört		07:06	01:01	02:02	*1h 43m*	03:45	*59m*	04:45	*46m*	05:31	*15h 40m*	21:12	*46m*	21:58	*59m*	22:58	*1h 51m*	00:50*	*8h 17m*	*1h 01m*				Sa, 11. Mai
So, 12. Mai	MESZ	—:——:—	–	Mond stört		08:11	01:57	01:51	*1h 51m*	03:43	*59m*	04:43	*46m*	05:29	*15h 44m*	21:13	*46m*	22:00	*1h 00m*	23:01	*2h 05m*	01:06*	*8h 13m*	*27m*				So, 12. Mai
Mo, 13. Mai	MESZ			Astr. MD		09:27	02:34	01:34	*2h 05m*	03:40	*1h 00m*	04:41	*46m*	05:27	*15h 47m*	21:15	*47m*	22:02	*1h 01m*	23:04		—:—	*8h 10m*		02:58* – 03:37*	*38m*	M↘ *bis* ND_	Mo, 13. Mai
Di, 14. Mai	MESZ			Astr. MD		10:46	02:58	—:—		03:37	*1h 01m*	04:39	*47m*	05:26	*15h 51m*	21:17	*47m*	22:04	*1h 02m*	23:06		—:—	*8h 07m*		03:15* – 03:34*	*19m*	M↘ *bis* ND_	Di, 14. Mai
Mi, 15. Mai	MESZ			Astr. MD	◐	12:04	03:15	—:—		03:34	*1h 02m*	04:37	*47m*	05:24	*15h 54m*	21:18	*47m*	22:06	*1h 03m*	23:09		—:—	*8h 04m*		03:26* – 03:32*	*5m*	M↘ *bis* ND_	Mi, 15. Mai
Do, 16. Mai	MESZ			Astr. MD		13:19	03:26	—:—		03:32	*1h 03m*	04:35	*47m*	05:23	*15h 57m*	21:20	*48m*	22:08	*1h 04m*	23:12		—:—	*8h 01m*		—:——:—	–	Mond stört	Do, 16. Mai
Fr, 17. Mai	MESZ			Astr. MD		14:32	03:36	—:—		03:29	*1h 04m*	04:33	*47m*	05:21	*16h 00m*	21:22	*48m*	22:10	*1h 04m*	23:15		—:—	*7h 57m*		—:——:—	–	Mond stört	Fr, 17. Mai
Sa, 18. Mai	MESZ			Astr. MD		15:43	03:44	—:—		03:26	*1h 04m*	04:31	*48m*	05:19	*16h 03m*	21:23	*48m*	22:12	*1h 05m*	23:18		—:—	*7h 54m*		—:——:—	–	Mond stört	Sa, 18. Mai
So, 19. Mai	MESZ			Astr. MD		16:55	03:51	—:—		03:24	*1h 05m*	04:29	*48m*	05:18	*16h 06m*	21:25	*48m*	22:14	*1h 06m*	23:20		—:—	*7h 51m*		—:——:—	–	Mond stört	So, 19. Mai
Mo, 20. Mai	MESZ			Astr. MD		18:09	03:59	—:—		03:21	*1h 06m*	04:28	*48m*	05:17	*16h 09m*	21:26	*49m*	22:16	*1h 07m*	23:23		—:—	*7h 49m*		—:——:—	–	Mond stört	Mo, 20. Mai
Di, 21. Mai	MESZ			Astr. MD		19:26	04:09	—:—		03:18	*1h 07m*	04:26	*49m*	05:15	*16h 12m*	21:28	*49m*	22:17	*1h 08m*	23:26		—:—	*7h 46m*		—:——:—	–	Mond stört	Di, 21. Mai
Mi, 22. Mai	MESZ			Astr. MD		20:47	04:20	—:—		03:16	*1h 08m*	04:24	*49m*	05:14	*16h 15m*	21:29	*49m*	22:19	*1h 09m*	23:29		—:—	*7h 43m*		—:——:—	–	Mond stört	Mi, 22. Mai
Do, 23. Mai	MESZ			Astr. MD	○	22:09	04:37	—:—		03:13	*1h 09m*	04:23	*49m*	05:13	*16h 18m*	21:31	*50m*	22:21	*1h 10m*	23:32		—:—	*7h 40m*		—:——:—	–	Mond stört	Do, 23. Mai
Fr, 24. Mai	MESZ			Astr. MD		23:27	05:02	—:—		03:10	*1h 10m*	04:21	*50m*	05:11	*16h 20m*	21:32	*50m*	22:23	*1h 11m*	23:34		—:—	*7h 38m*		—:——:—	–	Mond stört	Fr, 24. Mai
Sa, 25. Mai	MESZ			Astr. MD		—:—	05:39	—:—		03:08	*1h 11m*	04:19	*50m*	05:10	*16h 23m*	21:33	*50m*	22:24	*1h 12m*	23:37		—:—	*7h 35m*		23:37 – 00:32*	*55m*	ND+ *bis* M↗	Sa, 25. Mai
So, 26. Mai	MESZ			Astr. MD		00:32	06:35	—:—		03:05	*1h 12m*	04:18	*50m*	05:09	*16h 25m*	21:35	*51m*	22:26	*1h 13m*	23:40		—:—	*7h 32m*		23:40 – 01:20*	*1h 40m*	ND+ *bis* M↗	So, 26. Mai
Mo, 27. Mai	MESZ			Astr. MD		01:20	07:49	—:—		03:03	*1h 13m*	04:16	*51m*	05:08	*16h 28m*	21:36	*51m*	22:28	*1h 14m*	23:43		—:—	*7h 30m*		23:43 – 01:52*	*2h 09m*	ND+ *bis* M↗	Mo, 27. Mai
Di, 28. Mai	MESZ			Astr. MD		01:52	09:16	—:—		03:00	*1h 14m*	04:15	*51m*	05:07	*16h 30m*	21:37	*51m*	22:29	*1h 15m*	23:45		—:—	*7h 28m*		23:45 – 02:14*	*2h 28m*	ND+ *bis* M↗	Di, 28. Mai
Mi, 29. Mai	MESZ			Astr. MD		02:14	10:46	—:—		02:58	*1h 15m*	04:14	*51m*	05:06	*16h 33m*	21:39	*52m*	22:31	*1h 16m*	23:48		—:—	*7h 25m*		23:48 – 02:29*	*2h 41m*	ND+ *bis* M↗	Mi, 29. 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
2024	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung						Sonne			Ende der Abenddämmerung						Nacht	Astr. N.	Naut. dunkel und kein Mond			2024
	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*		
Do, 30. Mai	MESZ			Astr. MD	◑	02:29	12:16	—:—		02:55	*1h 16m*	04:12	*52m*	05:05	*16h 35m*	21:40	*52m*	22:32	*1h 18m*	23:51		—:—	*7h 23m*		23:51 – 02:41*	*2h 50m*	ND$_+$ *bis* M$_\nearrow$	Do, 30. Mai
Fr, 31. Mai	MESZ			Astr. MD		02:41	13:45	—:—		02:53	*1h 18m*	04:11	*52m*	05:04	*16h 37m*	21:41	*52m*	22:34	*1h 19m*	23:53		—:—	*7h 21m*		23:53 – 02:51*	*2h 57m*	ND$_+$ *bis* ND$_-$	Fr, 31. Mai
Sa, 1. Jun	MESZ			Astr. MD		02:52	15:13	—:—		02:51	*1h 19m*	04:10	*52m*	05:03	*16h 39m*	21:42	*53m*	22:35	*1h 20m*	23:56		—:—	*7h 19m*		23:56 – 02:49*	*2h 52m*	ND$_+$ *bis* ND$_-$	Sa, 1. Jun
So, 2. Jun	MESZ			Astr. MD		03:02	16:41	—:—		02:49	*1h 20m*	04:09	*53m*	05:02	*16h 41m*	21:43	*53m*	22:37	*1h 21m*	23:58		—:—	*7h 17m*		23:58 – 02:46*	*2h 48m*	ND$_+$ *bis* ND$_-$	So, 2. Jun
Mo, 3. Jun	MESZ			Astr. MD		03:13	18:12	—:—		02:46	*1h 21m*	04:08	*53m*	05:01	*16h 43m*	21:45	*53m*	22:38	*1h 22m*	00:01*		—:—	*7h 15m*		00:01* – 02:44*	*2h 43m*	ND$_+$ *bis* ND$_-$	Mo, 3. Jun
Di, 4. Jun	MESZ			Astr. MD		03:27	19:45	—:—		02:44	*1h 22m*	04:07	*53m*	05:00	*16h 45m*	21:46	*53m*	22:40	*1h 23m*	00:03*		—:—	*7h 14m*		00:03* – 02:42*	*2h 39m*	ND$_+$ *bis* ND$_-$	Di, 4. Jun
Mi, 5. Jun	MESZ			Astr. MD		03:45	21:16	—:—		02:42	*1h 23m*	04:06	*53m*	05:00	*16h 46m*	21:47	*54m*	22:41	*1h 24m*	00:06*		—:—	*7h 12m*		00:06* – 02:40*	*2h 34m*	ND$_+$ *bis* ND$_-$	Mi, 5. Jun
Do, 6. Jun	MESZ			Astr. MD	●	04:13	22:39	—:—		02:40	*1h 24m*	04:05	*54m*	04:59	*16h 48m*	21:48	*54m*	22:42	*1h 25m*	00:08*		—:—	*7h 11m*		00:08* – 02:38*	*2h 30m*	ND$_+$ *bis* ND$_-$	Do, 6. Jun
Fr, 7. Jun	MESZ			Astr. MD		04:54	23:44	—:—		02:38	*1h 25m*	04:04	*54m*	04:59	*16h 49m*	21:49	*54m*	22:43	*1h 26m*	00:10*		—:—	*7h 09m*		00:10* – 02:37*	*2h 26m*	ND$_+$ *bis* ND$_-$	Fr, 7. Jun
Sa, 8. Jun	MESZ			Astr. MD		05:52	—:—	—:—		02:37	*1h 26m*	04:03	*54m*	04:58	*16h 51m*	21:49	*54m*	22:44	*1h 27m*	00:12*		—:—	*7h 08m*		00:30* – 02:35*	*2h 05m*	M$_\searrow$ *bis* ND$_-$	Sa, 8. Jun
So, 9. Jun	MESZ			Astr. MD		07:05	00:30	—:—		02:35	*1h 27m*	04:03	*54m*	04:58	*16h 52m*	21:50	*55m*	22:45	*1h 28m*	00:14*		—:—	*7h 07m*		00:59* – 02:33*	*1h 33m*	M$_\searrow$ *bis* ND$_-$	So, 9. Jun
Mo, 10. Jun	MESZ			Astr. MD		08:25	00:59	—:—		02:33	*1h 28m*	04:02	*55m*	04:57	*16h 53m*	21:51	*55m*	22:46	*1h 29m*	00:16*		—:—	*7h 05m*		01:19* – 02:32*	*1h 12m*	M$_\searrow$ *bis* ND$_-$	Mo, 10. Jun
Di, 11. Jun	MESZ			Astr. MD		09:45	01:19	—:—		02:32	*1h 29m*	04:02	*55m*	04:57	*16h 54m*	21:52	*55m*	22:47	*1h 30m*	00:18*		—:—	*7h 04m*		01:33* – 02:30*	*57m*	M$_\searrow$ *bis* ND$_-$	Di, 11. Jun
Mi, 12. Jun	MESZ			Astr. MD		11:02	01:33	—:—		02:30	*1h 30m*	04:01	*55m*	04:57	*16h 55m*	21:52	*55m*	22:48	*1h 31m*	00:19*		—:—	*7h 03m*		01:43* – 02:29*	*46m*	M$_\searrow$ *bis* ND$_-$	Mi, 12. Jun
Do, 13. Jun	MESZ			Astr. MD		12:16	01:43	—:—		02:29	*1h 31m*	04:01	*55m*	04:56	*16h 56m*	21:53	*55m*	22:49	*1h 32m*	00:21*		—:—	*7h 03m*		01:51* – 02:28*	*36m*	M$_\searrow$ *bis* ND$_-$	Do, 13. Jun
Fr, 14. Jun	MESZ			Astr. MD	◐	13:28	01:51	—:—		02:28	*1h 32m*	04:00	*55m*	04:56	*16h 57m*	21:54	*55m*	22:49	*1h 32m*	00:22*		—:—	*7h 02m*		01:59* – 02:27*	*28m*	M$_\searrow$ *bis* ND$_-$	Fr, 14. Jun
Sa, 15. Jun	MESZ			Astr. MD		14:39	01:59	—:—		02:27	*1h 32m*	04:00	*55m*	04:56	*16h 58m*	21:54	*55m*	22:50	*1h 33m*	00:23*		—:—	*7h 01m*		02:07* – 02:27*	*19m*	M$_\searrow$ *bis* ND$_-$	Sa, 15. Jun
So, 16. Jun	MESZ			Astr. MD		15:52	02:07	—:—		02:27	*1h 33m*	04:00	*55m*	04:56	*16h 58m*	21:55	*55m*	22:51	*1h 33m*	00:24*		—:—	*7h 01m*		02:16* – 02:26*	*10m*	M$_\searrow$ *bis* ND$_-$	So, 16. Jun
Mo, 17. Jun	MESZ			Astr. MD		17:07	02:16	—:—		02:26	*1h 33m*	04:00	*55m*	04:56	*16h 59m*	21:55	*55m*	22:51	*1h 34m*	00:25*		—:—	*7h 00m*		—:— – —:—	–	Mond stört	Mo, 17. Jun
Di, 18. Jun	MESZ			Astr. MD		18:26	02:26	—:—		02:26	*1h 34m*	04:00	*55m*	04:56	*16h 59m*	21:55	*56m*	22:51	*1h 34m*	00:26*		—:—	*7h 00m*		—:— – —:—	–	Mond stört	Di, 18. Jun
Mi, 19. Jun	MESZ			Astr. MD		19:48	02:41	—:—		02:25	*1h 34m*	04:00	*56m*	04:56	*16h 59m*	21:56	*56m*	22:52	*1h 34m*	00:27*		—:—	*7h 00m*		—:— – —:—	–	Mond stört	Mi, 19. Jun
Do, 20. Jun	MESZ			Astr. MD		21:08	03:02	—:—		02:25	*1h 34m*	04:00	*56m*	04:56	*16h 59m*	21:56	*56m*	22:52	*1h 34m*	00:27*		—:—	*7h 00m*		—:— – —:—	–	Mond stört	Do, 20. Jun
Fr, 21. Jun	MESZ			Astr. MD		22:20	03:34	—:—		02:25	*1h 34m*	04:00	*56m*	04:56	*16h 59m*	21:56	*56m*	22:52	*1h 34m*	00:27*		—:—	*7h 00m*		—:— – —:—	–	Mond stört	Fr, 21. Jun
Sa, 22. Jun	MESZ			Astr. MD	○	23:16	04:24	—:—		02:26	*1h 34m*	04:01	*56m*	04:57	*16h 59m*	21:56	*56m*	22:52	*1h 34m*	00:27*		—:—	*7h 00m*		—:— – —:—	–	Mond stört	Sa, 22. Jun
So, 23. Jun	MESZ			Astr. MD		23:54	05:34	—:—		02:26	*1h 34m*	04:01	*56m*	04:57	*16h 59m*	21:56	*55m*	22:52	*1h 34m*	00:27*		—:—	*7h 01m*		—:— – —:—	–	Mond stört	So, 23. Jun
Mo, 24. Jun	MESZ			Astr. MD		—:—	06:59	—:—		02:27	*1h 34m*	04:01	*55m*	04:57	*16h 58m*	21:56	*55m*	22:52	*1h 33m*	00:26*		—:—	*7h 01m*		—:— – —:—	–	Mond stört	Mo, 24. Jun
Di, 25. Jun	MESZ			Astr. MD		00:19	08:31	—:—		02:28	*1h 33m*	04:02	*55m*	04:58	*16h 58m*	21:56	*55m*	22:52	*1h 33m*	00:25*		—:—	*7h 01m*		00:25* – 00:36*	*10m*	ND$_+$ *bis* M$_\nearrow$	Di, 25. Jun
Mi, 26. Jun	MESZ			Astr. MD		00:36	10:03	—:—		02:29	*1h 33m*	04:02	*55m*	04:58	*16h 57m*	21:56	*55m*	22:52	*1h 32m*	00:25*		—:—	*7h 02m*		00:25* – 00:49*	*24m*	ND$_+$ *bis* M$_\nearrow$	Mi, 26. Jun
Do, 27. Jun	MESZ			Astr. MD		00:49	11:32	—:—		02:30	*1h 32m*	04:03	*55m*	04:59	*16h 57m*	21:56	*55m*	22:52	*1h 32m*	00:24*		—:—	*7h 03m*		00:24* – 01:00*	*35m*	ND$_+$ *bis* M$_\nearrow$	Do, 27. Jun
Fr, 28. Jun	MESZ			Astr. MD	◑	01:00	13:00	—:—		02:32	*1h 32m*	04:04	*55m*	04:59	*16h 56m*	21:56	*55m*	22:51	*1h 31m*	00:23*		—:—	*7h 04m*		00:23* – 01:10*	*46m*	ND$_+$ *bis* M$_\nearrow$	Fr, 28. Jun
Sa, 29. Jun	MESZ			Astr. MD		01:10	14:27	—:—		02:33	*1h 31m*	04:04	*55m*	05:00	*16h 55m*	21:56	*55m*	22:51	*1h 30m*	00:21*		—:—	*7h 05m*		00:21* – 01:20*	*58m*	ND$_+$ *bis* M$_\nearrow$	Sa, 29. Jun
So, 30. Jun	MESZ			Astr. MD		01:20	15:55	—:—		02:35	*1h 30m*	04:05	*55m*	05:01	*16h 54m*	21:55	*55m*	22:50	*1h 29m*	00:20*		—:—	*7h 06m*		00:20* – 01:33*	*1h 12m*	ND$_+$ *bis* M$_\nearrow$	So, 30. Jun
Mo, 1. Jul	MESZ			Astr. MD		01:33	17:25	—:—		02:37	*1h 29m*	04:06	*55m*	05:01	*16h 53m*	21:55	*54m*	22:50	*1h 28m*	00:19*		—:—	*7h 07m*		00:19* – 01:49*	*1h 30m*	ND$_+$ *bis* M$_\nearrow$	Mo, 1. Jul
Di, 2. Jul	MESZ			Astr. MD		01:49	18:55	—:—		02:38	*1h 28m*	04:07	*54m*	05:02	*16h 52m*	21:54	*54m*	22:49	*1h 27m*	00:17*		—:—	*7h 08m*		00:17* – 02:12*	*1h 55m*	ND$_+$ *bis* M$_\nearrow$	Di, 2. Jul
Mi, 3. Jul	MESZ			Astr. MD		02:12	20:20	—:—		02:40	*1h 27m*	04:08	*54m*	05:03	*16h 51m*	21:54	*54m*	22:49	*1h 26m*	00:15*		—:—	*7h 09m*		00:15* – 02:43*	*2h 27m*	ND$_+$ *bis* ND$_-$	Mi, 3. Jul
Do, 4. Jul	MESZ			Astr. MD		02:47	21:32	—:—		02:43	*1h 26m*	04:09	*54m*	05:04	*16h 49m*	21:53	*54m*	22:48	*1h 25m*	00:13*		—:—	*7h 11m*		00:13* – 02:45*	*2h 31m*	ND$_+$ *bis* ND$_-$	Do, 4. Jul
Fr, 5. Jul	MESZ			Astr. MD		03:38	22:24	—:—		02:45	*1h 25m*	04:10	*54m*	05:05	*16h 48m*	21:53	*54m*	22:47	*1h 24m*	00:11*		—:—	*7h 12m*		00:11* – 02:47*	*2h 35m*	ND$_+$ *bis* ND$_-$	Fr, 5. Jul
Sa, 6. Jul	MESZ			Astr. MD	●	04:46	22:59	—:—		02:47	*1h 24m*	04:12	*54m*	05:06	*16h 46m*	21:52	*53m*	22:46	*1h 23m*	00:09*		—:—	*7h 14m*		00:09* – 02:49*	*2h 39m*	ND$_+$ *bis* ND$_-$	Sa, 6. Jul
So, 7. Jul	MESZ			Astr. MD		06:04	23:22	—:—		02:49	*1h 23m*	04:13	*53m*	05:07	*16h 44m*	21:51	*53m*	22:45	*1h 22m*	00:07*		—:—	*7h 16m*		00:07* – 02:52*	*2h 44m*	ND$_+$ *bis* ND$_-$	So, 7. Jul
Mo, 8. Jul	MESZ			Astr. MD		07:24	23:38	—:—		02:52	*1h 22m*	04:14	*53m*	05:08	*16h 43m*	21:51	*53m*	22:44	*1h 21m*	00:05*		—:—	*7h 18m*		00:05* – 02:54*	*2h 48m*	ND$_+$ *bis* ND$_-$	Mo, 8. Jul
Di, 9. Jul	MESZ			Astr. MD		08:43	23:50	—:—		02:54	*1h 21m*	04:15	*53m*	05:09	*16h 41m*	21:50	*53m*	22:43	*1h 20m*	00:03*		—:—	*7h 19m*		00:03* – 02:57*	*2h 53m*	ND$_+$ *bis* ND$_-$	Di, 9. Jul
Mi, 10. Jul	MESZ			Astr. MD		09:59	23:59	—:—		02:57	*1h 20m*	04:17	*53m*	05:10	*16h 39m*	21:49	*52m*	22:42	*1h 18m*	00:01*		—:—	*7h 21m*		00:01* – 02:59*	*2h 58m*	ND$_+$ *bis* ND$_-$	Mi, 10. Jul
Do, 11. Jul	MESZ			Astr. MD		11:12	—:—	—:—		02:59	*1h 18m*	04:18	*52m*	05:11	*16h 37m*	21:48	*52m*	22:41	*1h 17m*	23:58		—:—	*7h 24m*		00:07* – 03:02*	*2h 55m*	M$_\searrow$ *bis* ND$_-$	Do, 11. Jul
Fr, 12. Jul	MESZ			Astr. MD		12:23	00:07	—:—		03:02	*1h 17m*	04:20	*52m*	05:12	*16h 34m*	21:47	*52m*	22:39	*1h 16m*	23:56		—:—	*7h 26m*		00:14* – 03:04*	*2h 50m*	M$_\searrow$ *bis* ND$_-$	Fr, 12. Jul
Sa, 13. Jul	MESZ			Astr. MD		13:35	00:14	—:—		03:04	*1h 16m*	04:21	*52m*	05:13	*16h 32m*	21:46	*51m*	22:38	*1h 15m*	23:54		—:—	*7h 28m*		00:22* – 03:07*	*2h 44m*	M$_\searrow$ *bis* ND$_-$	Sa, 13. Jul
So, 14. Jul	MESZ			Astr. MD	◐	14:48	00:22	—:—		03:07	*1h 15m*	04:23	*51m*	05:15	*16h 30m*	21:45	*51m*	22:37	*1h 14m*	23:51		—:—	*7h 30m*		00:32* – 03:10*	*2h 37m*	M$_\searrow$ *bis* ND$_-$	So, 14. Jul
Mo, 15. Jul	MESZ			Astr. MD		16:05	00:32	—:—		03:10	*1h 14m*	04:24	*51m*	05:16	*16h 28m*	21:44	*51m*	22:35	*1h 13m*	23:49		—:—	*7h 33m*		00:45* – 03:12*	*2h 27m*	M$_\searrow$ *bis* ND$_-$	Mo, 15. Jul
Di, 16. Jul	MESZ			Astr. MD		17:25	00:45	—:—		03:12	*1h 13m*	04:26	*51m*	05:17	*16h 25m*	21:43	*50m*	22:34	*1h 12m*	23:46		—:—	*7h 35m*		01:02* – 03:15*	*2h 13m*	M$_\searrow$ *bis* ND$_-$	Di, 16. Jul
Mi, 17. Jul	MESZ			Astr. MD		18:46	01:02	—:—		03:15	*1h 12m*	04:28	*50m*	05:19	*16h 23m*	21:42	*50m*	22:32	*1h 11m*	23:44		—:—	*7h 38m*		01:29* – 03:18*	*1h 49m*	M$_\searrow$ *bis* ND$_-$	Mi, 17. Jul
Do, 18. Jul	MESZ			Astr. MD		20:02	01:29	—:—		03:18	*1h 11m*	04:29	*50m*	05:20	*16h 20m*	21:40	*50m*	22:31	*1h 10m*	23:41		—:—	*7h 40m*		02:10* – 03:21*	*1h 10m*	M$_\searrow$ *bis* ND$_-$	Do, 18. 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
2024	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung						Sonne			Ende der Abenddämmerung						Nacht	Astr. N.	Naut. dunkel und kein Mond			2024
	zone		Δ*t*		Ph.	↗	↘	Astr.	Δ*t*	Naut.	Δ*t*	Bürg.	Δ*t*	↗	Δ*t*	↘	Δ*t*	Bürg.	Δ*t*	Naut.	Δ*t*	Astr.	Δ*t*	Δ*t*		Δ*t*		
Fr, 19. Jul	MESZ			Astr. MD		21:06	02:10	—:—		03:21	*1h 10m*	04:31	*50m*	05:21	*16h 17m*	21:39	*49m*	22:29	*1h 09m*	23:39		—:—	*7h 43m*		03:12* – 03:23*	*11m*	M↘ *bis* ND_	Fr, 19. Jul
Sa, 20. Jul	MESZ			Astr. MD		21:51	03:12	—:—		03:23	*1h 09m*	04:33	*49m*	05:23	*16h 14m*	21:38	*49m*	22:27	*1h 08m*	23:36		—:—	*7h 46m*		—:— – —:—	–	Mond stört	Sa, 20. Jul
So, 21. Jul	MESZ			Astr. MD	○	22:21	04:33	—:—		03:26	*1h 08m*	04:35	*49m*	05:24	*16h 12m*	21:36	*49m*	22:26	*1h 07m*	23:33		—:—	*7h 49m*		—:— – —:—	–	Mond stört	So, 21. Jul
Mo, 22. Jul	MESZ			Astr. MD		22:41	06:05	—:—		03:29	*1h 07m*	04:36	*49m*	05:26	*16h 09m*	21:35	*48m*	22:24	*1h 06m*	23:31		—:—	*7h 52m*		—:— – —:—	–	Mond stört	Mo, 22. Jul
Di, 23. Jul	MESZ			Astr. MD		22:56	07:40	—:—		03:32	*1h 06m*	04:38	*48m*	05:27	*16h 06m*	21:34	*48m*	22:22	*1h 05m*	23:28		—:—	*7h 55m*		—:— – —:—	–	Mond stört	Di, 23. Jul
Mi, 24. Jul	MESZ			Astr. MD		23:07	09:14	—:—		03:34	*1h 05m*	04:40	*48m*	05:29	*16h 03m*	21:32	*48m*	22:20	*1h 04m*	23:25		—:—	*7h 58m*		—:— – —:—	–	Mond stört	Mi, 24. Jul
Do, 25. Jul	MESZ			Astr. MD		23:18	10:44	—:—		03:37	*1h 04m*	04:42	*48m*	05:30	*16h 00m*	21:31	*47m*	22:18	*1h 03m*	23:22		—:—	*8h 01m*		—:— – —:—	–	Mond stört	Do, 25. Jul
Fr, 26. Jul	MESZ			Astr. MD		23:28	12:13	—:—		03:40	*1h 03m*	04:44	*47m*	05:32	*15h 57m*	21:29	*47m*	22:17	*1h 03m*	23:20		—:—	*8h 04m*		23:20 – 23:28	*8m*	ND+ *bis* M↗	Fr, 26. Jul
Sa, 27. Jul	MESZ			Astr. MD		23:40	13:42	—:—		03:43	*1h 03m*	04:46	*47m*	05:33	*15h 54m*	21:27	*47m*	22:15	*1h 02m*	23:17		—:—	*8h 07m*		23:17 – 23:40	*22m*	ND+ *bis* M↗	Sa, 27. Jul
So, 28. Jul	MESZ			Astr. MD	◑	23:54	15:12	—:—		03:45	*1h 02m*	04:48	*47m*	05:35	*15h 50m*	21:26	*47m*	22:13	*1h 01m*	23:14		—:—	*8h 10m*		23:14 – 23:54	*40m*	ND+ *bis* M↗	So, 28. Jul
Mo, 29. Jul	MESZ	—:— – —:—	–	Mond stört		—:—	16:42	—:—		03:48	*1h 01m*	04:49	*47m*	05:36	*15h 47m*	21:24	*46m*	22:11	*1h 00m*	23:11	*2h 04m*	01:16*	*8h 14m*	*29m*				Mo, 29. Jul
Di, 30. Jul	MESZ	—:— – —:—	–	Mond stört		00:15	18:08	01:46	*2h 04m*	03:51	*1h 00m*	04:51	*46m*	05:38	*15h 44m*	21:22	*46m*	22:09	*59m*	23:09	*1h 51m*	01:00*	*8h 17m*	*1h 02m*				Di, 30. Jul
Mi, 31. Jul	MESZ	00:49* – 01:30*	*40m*	AN+ *bis* M↗		00:45	19:23	02:02	*1h 51m*	03:53	*59m*	04:53	*46m*	05:40	*15h 40m*	21:21	*46m*	22:07	*59m*	23:06	*1h 43m*	00:49*	*8h 20m*	*1h 23m*				Mi, 31. Jul
Do, 1. Aug	MESZ	00:41* – 02:21*	*1h 40m*	AN+ *bis* AN_		01:30	20:21	02:13	*1h 43m*	03:56	*59m*	04:55	*46m*	05:41	*15h 37m*	21:19	*45m*	22:05	*58m*	23:03	*1h 37m*	00:41*	*8h 24m*	*1h 40m*				Do, 1. Aug
Fr, 2. Aug	MESZ	00:33* – 02:28*	*1h 54m*	AN+ *bis* AN_		02:31	21:01	02:21	*1h 37m*	03:59	*58m*	04:57	*45m*	05:43	*15h 34m*	21:17	*45m*	22:02	*57m*	23:00	*1h 33m*	00:33*	*8h 27m*	*1h 54m*				Fr, 2. Aug
Sa, 3. Aug	MESZ	00:27* – 02:35*	*2h 08m*	AN+ *bis* AN_		03:46	21:27	02:28	*1h 33m*	04:01	*57m*	04:59	*45m*	05:45	*15h 30m*	21:15	*45m*	22:00	*57m*	22:57	*1h 29m*	00:27*	*8h 31m*	*2h 08m*				Sa, 3. Aug
So, 4. Aug	MESZ	00:20* – 02:41*	*2h 20m*	AN+ *bis* AN_	●	05:06	21:45	02:35	*1h 29m*	04:04	*57m*	05:01	*45m*	05:46	*15h 27m*	21:13	*44m*	21:58	*56m*	22:55	*1h 25m*	00:20*	*8h 34m*	*2h 20m*				So, 4. Aug
Mo, 5. Aug	MESZ	00:15* – 02:46*	*2h 31m*	AN+ *bis* AN_		06:26	21:57	02:41	*1h 25m*	04:07	*56m*	05:03	*44m*	05:48	*15h 23m*	21:11	*44m*	21:56	*55m*	22:52	*1h 22m*	00:15*	*8h 38m*	*2h 31m*				Mo, 5. Aug
Di, 6. Aug	MESZ	00:09* – 02:52*	*2h 42m*	AN+ *bis* AN_		07:43	22:07	02:46	*1h 22m*	04:09	*55m*	05:05	*44m*	05:50	*15h 19m*	21:10	*44m*	21:54	*55m*	22:49	*1h 20m*	00:09*	*8h 41m*	*2h 42m*				Di, 6. Aug
Mi, 7. Aug	MESZ	00:04* – 02:57*	*2h 52m*	AN+ *bis* AN_		08:57	22:15	02:52	*1h 20m*	04:12	*55m*	05:07	*44m*	05:51	*15h 16m*	21:08	*43m*	21:52	*54m*	22:46	*1h 17m*	00:04*	*8h 45m*	*2h 52m*				Mi, 7. Aug
Do, 8. Aug	MESZ	23:59 – 03:01*	*3h 02m*	AN+ *bis* AN_		10:09	22:22	02:57	*1h 17m*	04:14	*54m*	05:09	*44m*	05:53	*15h 12m*	21:06	*43m*	21:49	*53m*	22:43	*1h 15m*	23:59	*8h 49m*	*3h 02m*				Do, 8. Aug
Fr, 9. Aug	MESZ	23:54 – 03:06*	*3h 11m*	AN+ *bis* AN_		11:20	22:30	03:01	*1h 15m*	04:17	*53m*	05:11	*43m*	05:55	*15h 08m*	21:04	*43m*	21:47	*53m*	22:41	*1h 13m*	23:54	*8h 52m*	*3h 11m*				Fr, 9. Aug
Sa, 10. Aug	MESZ	23:49 – 03:10*	*3h 20m*	AN+ *bis* AN_		12:33	22:39	03:06	*1h 13m*	04:20	*53m*	05:13	*43m*	05:56	*15h 05m*	21:02	*43m*	21:45	*52m*	22:38	*1h 11m*	23:49	*8h 56m*	*3h 20m*				Sa, 10. Aug
So, 11. Aug	MESZ	23:45 – 03:14*	*3h 29m*	AN+ *bis* AN_		13:47	22:50	03:10	*1h 11m*	04:22	*52m*	05:15	*43m*	05:58	*15h 01m*	21:00	*42m*	21:43	*52m*	22:35	*1h 10m*	23:45	*9h 00m*	*3h 29m*				So, 11. Aug
Mo, 12. Aug	MESZ	23:41 – 03:19*	*3h 38m*	AN+ *bis* AN_	◐	15:05	23:04	03:14	*1h 10m*	04:25	*52m*	05:17	*42m*	06:00	*14h 57m*	20:58	*42m*	21:40	*51m*	22:32	*1h 08m*	23:41	*9h 03m*	*3h 38m*				Mo, 12. Aug
Di, 13. Aug	MESZ	23:36 – 03:22*	*3h 46m*	AN+ *bis* AN_		16:24	23:26	03:19	*1h 08m*	04:27	*51m*	05:19	*42m*	06:02	*14h 53m*	20:56	*42m*	21:38	*51m*	22:29	*1h 07m*	23:36	*9h 07m*	*3h 46m*				Di, 13. Aug
Mi, 14. Aug	MESZ	23:59 – 03:26*	*3h 27m*	M↘ *bis* AN_		17:42	23:59	03:22	*1h 07m*	04:30	*51m*	05:21	*42m*	06:03	*14h 50m*	20:53	*42m*	21:36	*50m*	22:26	*1h 05m*	23:32	*9h 11m*	*3h 54m*				Mi, 14. Aug
Do, 15. Aug	MESZ	00:50* – 03:30*	*2h 40m*	M↘ *bis* AN_		18:51	—:—	03:26	*1h 05m*	04:32	*50m*	05:23	*42m*	06:05	*14h 46m*	20:51	*41m*	21:33	*50m*	22:24	*1h 04m*	23:28	*9h 15m*	*4h 02m*				Do, 15. Aug
Fr, 16. Aug	MESZ	02:02* – 03:34*	*1h 31m*	M↘ *bis* AN_		19:44	00:50	03:30	*1h 04m*	04:34	*50m*	05:25	*41m*	06:07	*14h 42m*	20:49	*41m*	21:31	*49m*	22:21	*1h 03m*	23:24	*9h 19m*	*4h 09m*				Fr, 16. Aug
Sa, 17. Aug	MESZ	03:31* – 03:37*	*6m*	M↘ *bis* AN_		20:20	02:02	03:34	*1h 03m*	04:37	*49m*	05:27	*41m*	06:08	*14h 38m*	20:47	*41m*	21:28	*49m*	22:18	*1h 01m*	23:20	*9h 23m*	*4h 17m*				Sa, 17. Aug
So, 18. Aug	MESZ	—:— – —:—	–	Mond stört		20:44	03:31	03:37	*1h 02m*	04:39	*49m*	05:29	*41m*	06:10	*14h 34m*	20:45	*41m*	21:26	*48m*	22:15	*1h 00m*	23:16	*9h 26m*	*4h 24m*				So, 18. Aug
Mo, 19. Aug	MESZ	—:— – —:—	–	Mond stört	○	21:01	05:06	03:41	*1h 00m*	04:42	*48m*	05:31	*41m*	06:12	*14h 30m*	20:43	*40m*	21:24	*48m*	22:12	*59m*	23:12	*9h 30m*	*4h 32m*				Mo, 19. Aug
Di, 20. Aug	MESZ	—:— – —:—	–	Mond stört		21:14	06:43	03:44	*59m*	04:44	*48m*	05:33	*41m*	06:14	*14h 26m*	20:40	*40m*	21:21	*48m*	22:09	*58m*	23:08	*9h 34m*	*4h 39m*				Di, 20. Aug
Mi, 21. Aug	MESZ	—:— – —:—	–	Mond stört		21:25	08:18	03:47	*58m*	04:46	*48m*	05:34	*40m*	06:15	*14h 22m*	20:38	*40m*	21:19	*47m*	22:07	*57m*	23:04	*9h 38m*	*4h 46m*				Mi, 21. Aug
Do, 22. Aug	MESZ	—:— – —:—	–	Mond stört		21:35	09:50	03:51	*58m*	04:49	*47m*	05:36	*40m*	06:17	*14h 18m*	20:36	*40m*	21:16	*47m*	22:04	*57m*	23:01	*9h 42m*	*4h 53m*				Do, 22. Aug
Fr, 23. Aug	MESZ	—:— – —:—	–	Mond stört		21:46	11:23	03:54	*57m*	04:51	*47m*	05:38	*40m*	06:19	*14h 15m*	20:34	*40m*	21:14	*46m*	22:01	*56m*	22:57	*9h 46m*	*4h 59m*				Fr, 23. Aug
Sa, 24. Aug	MESZ	—:— – —:—	–	Mond stört		22:00	12:55	03:57	*56m*	04:53	*46m*	05:40	*40m*	06:20	*14h 11m*	20:31	*39m*	21:11	*46m*	21:58	*55m*	22:54	*9h 50m*	*5h 06m*				Sa, 24. Aug
So, 25. Aug	MESZ	—:— – —:—	–	Mond stört		22:19	14:28	04:00	*55m*	04:56	*46m*	05:42	*40m*	06:22	*14h 07m*	20:29	*39m*	21:09	*46m*	21:55	*54m*	22:50	*9h 54m*	*5h 13m*				So, 25. Aug
Mo, 26. Aug	MESZ	—:— – —:—	–	Mond stört	◑	22:46	15:57	04:03	*54m*	04:58	*46m*	05:44	*39m*	06:24	*14h 03m*	20:27	*39m*	21:07	*45m*	21:52	*54m*	22:46	*9h 58m*	*5h 19m*				Mo, 26. Aug
Di, 27. Aug	MESZ	22:43 – 23:26	*42m*	AN+ *bis* M↗		23:26	17:17	04:06	*54m*	05:00	*45m*	05:46	*39m*	06:26	*13h 58m*	20:25	*39m*	21:04	*45m*	21:50	*53m*	22:43	*10h 02m*	*5h 25m*				Di, 27. Aug
Mi, 28. Aug	MESZ	22:40 – 00:22*	*1h 42m*	AN+ *bis* M↗		—:—	18:20	04:09	*53m*	05:02	*45m*	05:48	*39m*	06:27	*13h 54m*	20:22	*39m*	21:02	*45m*	21:47	*52m*	22:40	*10h 06m*	*5h 32m*				Mi, 28. Aug
Do, 29. Aug	MESZ	22:36 – 01:33*	*2h 57m*	AN+ *bis* M↗		00:22	19:04	04:12	*52m*	05:04	*45m*	05:50	*39m*	06:29	*13h 50m*	20:20	*39m*	20:59	*44m*	21:44	*52m*	22:36	*10h 10m*	*5h 38m*				Do, 29. Aug
Fr, 30. Aug	MESZ	22:33 – 02:52*	*4h 19m*	AN+ *bis* M↗		01:33	19:33	04:15	*52m*	05:07	*44m*	05:52	*39m*	06:31	*13h 46m*	20:18	*38m*	20:57	*44m*	21:41	*51m*	22:33	*10h 14m*	*5h 44m*				Fr, 30. Aug
Sa, 31. Aug	MESZ	22:29 – 04:11*	*5h 42m*	AN+ *bis* M↗		02:52	19:52	04:17	*51m*	05:09	*44m*	05:54	*39m*	06:33	*13h 42m*	20:15	*38m*	20:54	*44m*	21:38	*50m*	22:29	*10h 18m*	*5h 50m*				Sa, 31. Aug
So, 1. Sep	MESZ	22:26 – 04:23*	*5h 56m*	AN+ *bis* AN_		04:11	20:06	04:20	*50m*	05:11	*44m*	05:55	*38m*	06:34	*13h 38m*	20:13	*38m*	20:52	*44m*	21:36	*50m*	22:26	*10h 23m*	*5h 56m*				So, 1. Sep
Mo, 2. Sep	MESZ	22:23 – 04:25*	*6h 02m*	AN+ *bis* AN_		05:29	20:16	04:23	*50m*	05:13	*44m*	05:57	*38m*	06:36	*13h 34m*	20:11	*38m*	20:49	*43m*	21:33	*49m*	22:23	*10h 27m*	*6h 02m*				Mo, 2. Sep
Di, 3. Sep	MESZ	22:19 – 04:28*	*6h 08m*	AN+ *bis* AN_	●	06:44	20:24	04:25	*49m*	05:15	*43m*	05:59	*38m*	06:38	*13h 30m*	20:08	*38m*	20:47	*43m*	21:30	*49m*	22:19	*10h 31m*	*6h 08m*				Di, 3. Sep
Mi, 4. Sep	MESZ	22:16 – 04:31*	*6h 14m*	AN+ *bis* AN_		07:56	20:32	04:28	*49m*	05:17	*43m*	06:01	*38m*	06:39	*13h 26m*	20:06	*38m*	20:44	*43m*	21:27	*48m*	22:16	*10h 35m*	*6h 14m*				Mi, 4. Sep
Do, 5. Sep	MESZ	22:13 – 04:33*	*6h 20m*	AN+ *bis* AN_		09:08	20:39	04:31	*48m*	05:19	*43m*	06:03	*38m*	06:41	*13h 22m*	20:03	*38m*	20:42	*43m*	21:25	*48m*	22:13	*10h 39m*	*6h 20m*				Do, 5. Sep
Fr, 6. Sep	MESZ	22:10 – 04:36*	*6h 25m*	AN+ *bis* AN_		10:20	20:47	04:33	*48m*	05:22	*43m*	06:05	*38m*	06:43	*13h 18m*	20:01	*37m*	20:39	*42m*	21:22	*47m*	22:10	*10h 43m*	*6h 25m*				Fr, 6. 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
2024	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung						Sonne			Ende der Abenddämmerung						Nacht	Astr. N.	Naut. dunkel und kein Mond			2024
	zone		Δt		Ph.	↗	↘	Astr.	Δt	Naut.	Δt	Bürg.	Δt	↗	Δt	↘	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Sa, 7. Sep	MESZ	22:07 – 04:38*	6h 31m	AN_+ bis AN_-		11:33	20:57	04:36	48m	05:24	42m	06:07	38m	06:45	13h 14m	19:59	37m	20:37	42m	21:19	47m	22:07	10h 47m	6h 31m				Sa, 7. Sep
So, 8. Sep	MESZ	22:04 – 04:40*	6h 36m	AN_+ bis AN_-		12:49	21:09	04:38	47m	05:26	42m	06:08	37m	06:46	13h 09m	19:56	37m	20:34	42m	21:16	47m	22:04	10h 51m	6h 36m				So, 8. Sep
Mo, 9. Sep	MESZ	22:00 – 04:43*	6h 42m	AN_+ bis AN_-		14:07	21:27	04:40	47m	05:28	42m	06:10	37m	06:48	13h 05m	19:54	37m	20:32	42m	21:14	46m	22:00	10h 55m	6h 42m				Mo, 9. Sep
Di, 10. Sep	MESZ	21:57 – 04:45*	6h 47m	AN_+ bis AN_-		15:25	21:55	04:43	46m	05:30	42m	06:12	37m	06:50	13h 01m	19:51	37m	20:29	42m	21:11	46m	21:57	11h 00m	6h 47m				Di, 10. Sep
Mi, 11. Sep	MESZ	22:36 – 04:48*	6h 11m	$M_\searrow$ bis AN_-	◐	16:37	22:36	04:45	46m	05:32	42m	06:14	37m	06:51	12h 57m	19:49	37m	20:26	41m	21:08	46m	21:54	11h 04m	6h 53m				Mi, 11. Sep
Do, 12. Sep	MESZ	23:37 – 04:50*	5h 12m	$M_\searrow$ bis AN_-		17:35	23:37	04:48	46m	05:34	41m	06:16	37m	06:53	12h 53m	19:47	37m	20:24	41m	21:06	45m	21:51	11h 08m	6h 58m				Do, 12. Sep
Fr, 13. Sep	MESZ	00:57* – 04:52*	3h 55m	$M_\searrow$ bis AN_-		18:17	—:—	04:50	45m	05:36	41m	06:17	37m	06:55	12h 49m	19:44	37m	20:21	41m	21:03	45m	21:48	11h 12m	7h 03m				Fr, 13. Sep
Sa, 14. Sep	MESZ	02:28* – 04:55*	2h 26m	$M_\searrow$ bis AN_-		18:46	00:57	04:52	45m	05:38	41m	06:19	37m	06:57	12h 45m	19:42	37m	20:19	41m	21:00	45m	21:45	11h 16m	7h 09m				Sa, 14. Sep
So, 15. Sep	MESZ	04:04* – 04:57*	52m	$M_\searrow$ bis AN_-		19:05	02:28	04:55	45m	05:40	41m	06:21	37m	06:58	12h 40m	19:39	37m	20:16	41m	20:58	44m	21:42	11h 20m	7h 14m				So, 15. Sep
Mo, 16. Sep	MESZ	—:——:—	–	Mond stört		19:19	04:04	04:57	44m	05:42	41m	06:23	37m	07:00	12h 36m	19:37	37m	20:14	41m	20:55	44m	21:39	11h 24m	7h 19m				Mo, 16. Sep
Di, 17. Sep	MESZ	—:——:—	–	Mond stört		19:31	05:40	04:59	44m	05:44	41m	06:25	37m	07:02	12h 32m	19:34	37m	20:11	40m	20:52	44m	21:37	11h 29m	7h 24m				Di, 17. Sep
Mi, 18. Sep	MESZ	—:——:—	–	Mond stört	○	19:42	07:15	05:01	44m	05:45	40m	06:26	37m	07:03	12h 28m	19:32	36m	20:09	40m	20:50	43m	21:34	11h 33m	7h 29m				Mi, 18. Sep
Do, 19. Sep	MESZ	—:——:—	–	Mond stört		19:52	08:50	05:03	43m	05:47	40m	06:28	37m	07:05	12h 24m	19:30	36m	20:06	40m	20:47	43m	21:31	11h 37m	7h 34m				Do, 19. Sep
Fr, 20. Sep	MESZ	—:——:—	–	Mond stört		20:05	10:25	05:05	43m	05:49	40m	06:30	37m	07:07	12h 20m	19:27	36m	20:04	40m	20:44	43m	21:28	11h 41m	7h 39m				Fr, 20. Sep
Sa, 21. Sep	MESZ	—:——:—	–	Mond stört		20:22	12:02	05:08	43m	05:51	40m	06:32	36m	07:09	12h 16m	19:25	36m	20:02	40m	20:42	43m	21:25	11h 45m	7h 44m				Sa, 21. Sep
So, 22. Sep	MESZ	—:——:—	–	Mond stört		20:46	13:37	05:10	43m	05:53	40m	06:33	36m	07:10	12h 11m	19:22	36m	19:59	40m	20:39	43m	21:22	11h 49m	7h 49m				So, 22. Sep
Mo, 23. Sep	MESZ	21:20 – 21:22	2m	AN_+ bis $M_\nearrow$		21:22	15:04	05:12	43m	05:55	40m	06:35	36m	07:12	12h 07m	19:20	36m	19:57	40m	20:37	42m	21:20	11h 54m	7h 54m				Mo, 23. Sep
Di, 24. Sep	MESZ	21:17 – 22:14	56m	AN_+ bis $M_\nearrow$	◑	22:14	16:15	05:14	42m	05:57	40m	06:37	36m	07:14	12h 03m	19:17	36m	19:54	40m	20:34	42m	21:17	11h 58m	7h 59m				Di, 24. Sep
Mi, 25. Sep	MESZ	21:14 – 23:22	2h 07m	AN_+ bis $M_\nearrow$		23:22	17:05	05:16	42m	05:59	40m	06:39	36m	07:16	11h 59m	19:15	36m	19:52	39m	20:32	42m	21:14	12h 02m	8h 03m				Mi, 25. Sep
Do, 26. Sep	MESZ	21:11 – 00:39*	3h 27m	AN_+ bis $M_\nearrow$		—:—	17:38	05:18	42m	06:00	40m	06:41	36m	07:17	11h 55m	19:13	36m	19:49	39m	20:29	42m	21:11	12h 06m	8h 08m				Do, 26. Sep
Fr, 27. Sep	MESZ	21:09 – 01:59*	4h 50m	AN_+ bis $M_\nearrow$		00:39	18:00	05:20	42m	06:02	39m	06:42	36m	07:19	11h 51m	19:10	36m	19:47	39m	20:27	42m	21:09	12h 10m	8h 13m				Fr, 27. Sep
Sa, 28. Sep	MESZ	21:06 – 03:17*	6h 11m	AN_+ bis $M_\nearrow$		01:59	18:15	05:22	42m	06:04	39m	06:44	36m	07:21	11h 46m	19:08	36m	19:44	39m	20:24	41m	21:06	12h 14m	8h 17m				Sa, 28. Sep
So, 29. Sep	MESZ	21:03 – 04:32*	7h 28m	AN_+ bis $M_\nearrow$		03:17	18:26	05:24	41m	06:06	39m	06:46	36m	07:23	11h 42m	19:05	36m	19:42	39m	20:22	41m	21:03	12h 19m	8h 22m				So, 29. Sep
Mo, 30. Sep	MESZ	21:01 – 05:28*	8h 27m	AN_+ bis AN_-		04:32	18:34	05:26	41m	06:08	39m	06:48	36m	07:24	11h 38m	19:03	36m	19:40	39m	20:19	41m	21:01	12h 23m	8h 27m				Mo, 30. Sep
Di, 1. Okt	MESZ	20:58 – 05:30*	8h 31m	AN_+ bis AN_-		05:45	18:42	05:28	41m	06:10	39m	06:49	36m	07:26	11h 34m	19:01	36m	19:37	39m	20:17	41m	20:58	12h 27m	8h 31m				Di, 1. Okt
Mi, 2. Okt	MESZ	20:56 – 05:32*	8h 36m	AN_+ bis AN_-	●	06:57	18:49	05:30	41m	06:11	39m	06:51	36m	07:28	11h 30m	18:58	36m	19:35	39m	20:14	41m	20:56	12h 31m	8h 36m				Mi, 2. Okt
Do, 3. Okt	MESZ	20:53 – 05:34*	8h 40m	AN_+ bis AN_-		08:08	18:57	05:32	41m	06:13	39m	06:53	36m	07:30	11h 26m	18:56	36m	19:32	39m	20:12	41m	20:53	12h 35m	8h 40m				Do, 3. Okt
Fr, 4. Okt	MESZ	20:51 – 05:36*	8h 45m	AN_+ bis AN_-		09:21	19:06	05:34	41m	06:15	39m	06:55	36m	07:31	11h 21m	18:53	36m	19:30	39m	20:10	41m	20:51	12h 39m	8h 45m				Fr, 4. Okt
Sa, 5. Okt	MESZ	20:48 – 05:38*	8h 49m	AN_+ bis AN_-		10:37	19:17	05:36	41m	06:17	39m	06:56	36m	07:33	11h 17m	18:51	36m	19:28	39m	20:07	40m	20:48	12h 43m	8h 49m				Sa, 5. Okt
So, 6. Okt	MESZ	20:46 – 05:39*	8h 53m	AN_+ bis AN_-		11:54	19:33	05:38	41m	06:19	39m	06:58	36m	07:35	11h 13m	18:49	36m	19:25	39m	20:05	40m	20:46	12h 48m	8h 53m				So, 6. Okt
Mo, 7. Okt	MESZ	20:43 – 05:41*	8h 58m	AN_+ bis AN_-		13:12	19:56	05:39	40m	06:20	39m	07:00	36m	07:37	11h 09m	18:46	36m	19:23	39m	20:02	40m	20:43	12h 52m	8h 58m				Mo, 7. Okt
Di, 8. Okt	MESZ	20:41 – 05:43*	9h 02m	AN_+ bis AN_-		14:25	20:32	05:41	40m	06:22	39m	07:02	36m	07:39	11h 05m	18:44	36m	19:21	39m	20:00	40m	20:41	12h 56m	9h 02m				Di, 8. Okt
Mi, 9. Okt	MESZ	21:24 – 05:45*	8h 20m	$M_\searrow$ bis AN_-		15:28	21:24	05:43	40m	06:24	39m	07:03	36m	07:40	11h 01m	18:42	36m	19:18	39m	19:58	40m	20:38	13h 00m	9h 06m				Mi, 9. Okt
Do, 10. Okt	MESZ	22:35 – 05:47*	7h 12m	$M_\searrow$ bis AN_-	◐	16:15	22:35	05:45	40m	06:26	39m	07:05	37m	07:42	10h 57m	18:39	36m	19:16	39m	19:56	40m	20:36	13h 04m	9h 10m				Do, 10. Okt
Fr, 11. Okt	MESZ	23:59 – 05:49*	5h 49m	$M_\searrow$ bis AN_-		16:47	23:59	05:47	40m	06:27	39m	07:07	37m	07:44	10h 52m	18:37	36m	19:14	39m	19:53	40m	20:34	13h 08m	9h 14m				Fr, 11. Okt
Sa, 12. Okt	MESZ	01:30* – 05:50*	4h 20m	$M_\searrow$ bis AN_-		17:09	—:—	05:49	40m	06:29	39m	07:09	37m	07:46	10h 48m	18:35	37m	19:12	39m	19:51	40m	20:31	13h 12m	9h 19m				Sa, 12. Okt
So, 13. Okt	MESZ	03:03* – 05:52*	2h 49m	$M_\searrow$ bis AN_-		17:25	01:30	05:50	40m	06:31	39m	07:10	37m	07:48	10h 44m	18:32	37m	19:09	39m	19:49	40m	20:29	13h 17m	9h 23m				So, 13. Okt
Mo, 14. Okt	MESZ	04:36* – 05:54*	1h 17m	$M_\searrow$ bis AN_-		17:37	03:03	05:52	40m	06:33	39m	07:12	37m	07:49	10h 40m	18:30	37m	19:07	39m	19:47	40m	20:27	13h 21m	9h 27m				Mo, 14. Okt
Di, 15. Okt	MESZ	—:——:—	–	Mond stört		17:48	04:36	05:54	40m	06:34	39m	07:14	37m	07:51	10h 36m	18:28	37m	19:05	39m	19:44	40m	20:25	13h 25m	9h 31m				Di, 15. Okt
Mi, 16. Okt	MESZ	—:——:—	–	Mond stört		17:58	06:10	05:56	40m	06:36	39m	07:16	37m	07:53	10h 32m	18:26	37m	19:03	39m	19:42	40m	20:22	13h 29m	9h 35m				Mi, 16. Okt
Do, 17. Okt	MESZ	—:——:—	–	Mond stört	○	18:10	07:45	05:58	40m	06:38	39m	07:17	37m	07:55	10h 28m	18:23	37m	19:01	39m	19:40	40m	20:20	13h 33m	9h 39m				Do, 17. Okt
Fr, 18. Okt	MESZ	—:——:—	–	Mond stört		18:25	09:23	05:59	40m	06:40	39m	07:19	37m	07:57	10h 24m	18:21	37m	18:59	39m	19:38	40m	20:18	13h 37m	9h 43m				Fr, 18. Okt
Sa, 19. Okt	MESZ	—:——:—	–	Mond stört		18:45	11:02	06:01	40m	06:41	39m	07:21	37m	07:59	10h 20m	18:19	37m	18:56	39m	19:36	40m	20:16	13h 41m	9h 46m				Sa, 19. Okt
So, 20. Okt	MESZ	—:——:—	–	Mond stört		19:16	12:37	06:03	40m	06:43	39m	07:23	37m	08:00	10h 16m	18:17	37m	18:54	39m	19:34	40m	20:14	13h 45m	9h 50m				So, 20. Okt
Mo, 21. Okt	MESZ	—:——:—	–	Mond stört		20:03	13:59	06:05	40m	06:45	39m	07:24	37m	08:02	10h 12m	18:15	37m	18:52	39m	19:32	40m	20:12	13h 49m	9h 54m				Mo, 21. Okt
Di, 22. Okt	MESZ	20:10 – 21:07	57m	AN_+ bis $M_\nearrow$		21:07	15:00	06:06	40m	06:47	39m	07:26	37m	08:04	10h 08m	18:12	37m	18:50	39m	19:30	40m	20:10	13h 53m	9h 58m				Di, 22. Okt
Mi, 23. Okt	MESZ	20:08 – 22:24	2h 15m	AN_+ bis $M_\nearrow$		22:24	15:40	06:08	40m	06:48	39m	07:28	37m	08:06	10h 04m	18:10	37m	18:48	39m	19:28	40m	20:08	13h 57m	10h 01m				Mi, 23. Okt
Do, 24. Okt	MESZ	20:06 – 23:45	3h 38m	AN_+ bis $M_\nearrow$	◑	23:45	16:06	06:10	40m	06:50	39m	07:30	38m	08:08	10h 00m	18:08	38m	18:46	39m	19:26	40m	20:06	14h 01m	10h 05m				Do, 24. Okt
Fr, 25. Okt	MESZ	20:04 – 01:04*	5h 00m	AN_+ bis $M_\nearrow$		—:—	16:23	06:12	40m	06:52	39m	07:32	38m	08:10	9h 56m	18:06	38m	18:44	39m	19:24	40m	20:04	14h 05m	10h 09m				Fr, 25. Okt
Sa, 26. Okt	MESZ	20:02 – 02:21*	6h 18m	AN_+ bis $M_\nearrow$		01:04	16:35	06:13	40m	06:53	39m	07:33	38m	08:12	9h 52m	18:04	38m	18:42	39m	19:22	40m	20:02	14h 09m	10h 12m				Sa, 26. 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
2024	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung						Sonne			Ende der Abenddämmerung						Nacht	Astr. N.	Naut. dunkel und kein Mond			2024
	zone		Δ*t*		Ph.	↗	↘	Astr.	Δ*t*	Naut.	Δ*t*	Bürg.	Δ*t*	↗	Δ*t*	↘	Δ*t*	Bürg.	Δ*t*	Naut.	Δ*t*	Astr.	Δ*t*	Δ*t*		Δ*t*		
So, 27. Okt		19:00 – 02:34*	7h 33m	AN_+ bis $M_↗$		01:21	15:44	05:15	40m	05:55	39m	06:35	38m	07:14	9h 48m	17:02	38m	17:40	39m	18:20	40m	19:00	14h 13m	10h 16m				So, 27. Okt
Mo, 28. Okt		18:58 – 03:46*	8h 47m	AN_+ bis $M_↗$		02:34	15:52	05:17	40m	05:57	39m	06:37	38m	07:15	9h 44m	17:00	38m	17:38	39m	18:18	40m	18:58	14h 17m	10h 19m				Mo, 28. Okt
Di, 29. Okt		18:57 – 04:57*	10h 00m	AN_+ bis $M_↗$		03:46	15:59	05:18	40m	05:59	40m	06:39	38m	07:17	9h 40m	16:58	38m	17:37	39m	18:17	40m	18:57	14h 21m	10h 23m				Di, 29. Okt
Mi, 30. Okt		18:55 – 05:22*	10h 26m	AN_+ bis AN_-		04:57	16:07	05:20	40m	06:00	40m	06:40	38m	07:19	9h 36m	16:56	38m	17:35	40m	18:15	40m	18:55	14h 25m	10h 26m				Mi, 30. Okt
Do, 31. Okt		18:53 – 05:23*	10h 30m	AN_+ bis AN_-		06:10	16:15	05:22	40m	06:02	40m	06:42	38m	07:21	9h 32m	16:54	38m	17:33	40m	18:13	40m	18:53	14h 29m	10h 30m				Do, 31. Okt
Fr, 1. Nov		18:51 – 05:25*	10h 33m	AN_+ bis AN_-	●	07:24	16:26	05:23	40m	06:04	40m	06:44	39m	07:23	9h 29m	16:52	39m	17:31	40m	18:11	40m	18:51	14h 32m	10h 33m				Fr, 1. Nov
Sa, 2. Nov		18:50 – 05:27*	10h 36m	AN_+ bis AN_-		08:41	16:41	05:25	40m	06:05	40m	06:46	39m	07:25	9h 25m	16:50	39m	17:29	40m	18:10	40m	18:50	14h 36m	10h 36m				Sa, 2. Nov
So, 3. Nov		18:48 – 05:28*	10h 40m	AN_+ bis AN_-		10:00	17:01	05:27	40m	06:07	40m	06:47	39m	07:27	9h 21m	16:48	39m	17:28	40m	18:08	40m	18:48	14h 40m	10h 40m				So, 3. Nov
Mo, 4. Nov		18:47 – 05:30*	10h 43m	AN_+ bis AN_-		11:15	17:33	05:28	40m	06:09	40m	06:49	39m	07:29	9h 17m	16:46	39m	17:26	40m	18:06	40m	18:47	14h 44m	10h 43m				Mo, 4. Nov
Di, 5. Nov		18:45 – 05:31*	10h 46m	AN_+ bis AN_-		12:22	18:20	05:30	40m	06:10	40m	06:51	39m	07:31	9h 14m	16:45	39m	17:24	40m	18:05	40m	18:45	14h 47m	10h 46m				Di, 5. Nov
Mi, 6. Nov		19:24 – 05:33*	10h 08m	$M_↘$ bis AN_-		13:13	19:24	05:31	40m	06:12	40m	06:53	39m	07:32	9h 10m	16:43	39m	17:23	40m	18:03	40m	18:44	14h 51m	10h 49m				Mi, 6. Nov
Do, 7. Nov		20:43 – 05:35*	8h 51m	$M_↘$ bis AN_-		13:49	20:43	05:33	40m	06:14	40m	06:54	39m	07:34	9h 06m	16:41	39m	17:21	40m	18:02	40m	18:42	14h 55m	10h 52m				Do, 7. Nov
Fr, 8. Nov		22:10 – 05:36*	7h 26m	$M_↘$ bis AN_-		14:13	22:10	05:35	40m	06:15	40m	06:56	40m	07:36	9h 03m	16:39	40m	17:19	40m	18:00	40m	18:41	14h 58m	10h 55m				Fr, 8. Nov
Sa, 9. Nov		23:39 – 05:38*	5h 59m	$M_↘$ bis AN_-	◐	14:30	23:39	05:36	40m	06:17	41m	06:58	40m	07:38	8h 59m	16:38	40m	17:18	40m	17:59	40m	18:39	15h 02m	10h 58m				Sa, 9. Nov
So, 10. Nov		01:08* – 05:39*	4h 31m	$M_↘$ bis AN_-		14:43	—:—	05:38	40m	06:18	41m	07:00	40m	07:40	8h 56m	16:36	40m	17:16	41m	17:57	40m	18:38	15h 05m	11h 01m				So, 10. Nov
Mo, 11. Nov		02:37* – 05:41*	3h 03m	$M_↘$ bis AN_-		14:54	01:08	05:39	40m	06:20	41m	07:01	40m	07:42	8h 52m	16:34	40m	17:15	41m	17:56	40m	18:37	15h 09m	11h 04m				Mo, 11. Nov
Di, 12. Nov		04:09* – 05:42*	1h 33m	$M_↘$ bis AN_-		15:04	02:37	05:41	40m	06:22	41m	07:03	40m	07:44	8h 49m	16:33	40m	17:13	41m	17:55	40m	18:35	15h 12m	11h 07m				Di, 12. Nov
Mi, 13. Nov		05:43* – 05:44*	1m	$M_↘$ bis AN_-		15:15	04:09	05:42	40m	06:23	41m	07:05	40m	07:46	8h 45m	16:31	40m	17:12	41m	17:53	40m	18:34	15h 16m	11h 09m				Mi, 13. Nov
Do, 14. Nov		—:— – —:—	–	Mond stört		15:28	05:43	05:44	40m	06:25	41m	07:06	41m	07:47	8h 42m	16:30	41m	17:11	41m	17:52	40m	18:33	15h 19m	11h 12m				Do, 14. Nov
Fr, 15. Nov		—:— – —:—	–	Mond stört	○	15:45	07:20	05:45	40m	06:26	41m	07:08	41m	07:49	8h 39m	16:28	41m	17:09	41m	17:51	40m	18:32	15h 22m	11h 15m				Fr, 15. Nov
Sa, 16. Nov		—:— – —:—	–	Mond stört		16:11	08:59	05:47	40m	06:28	41m	07:10	41m	07:51	8h 35m	16:27	41m	17:08	41m	17:50	40m	18:31	15h 26m	11h 17m				Sa, 16. Nov
So, 17. Nov		—:— – —:—	–	Mond stört		16:50	10:30	05:48	41m	06:29	41m	07:11	41m	07:53	8h 32m	16:25	41m	17:07	41m	17:49	40m	18:30	15h 29m	11h 20m				So, 17. Nov
Mo, 18. Nov		—:— – —:—	–	Mond stört		17:47	11:43	05:50	41m	06:31	41m	07:13	41m	07:55	8h 29m	16:24	41m	17:06	41m	17:48	41m	18:29	15h 32m	11h 22m				Mo, 18. Nov
Di, 19. Nov		18:28 – 19:02	34m	AN_+ bis $M_↗$		19:02	12:34	05:51	41m	06:32	42m	07:15	41m	07:56	8h 26m	16:23	41m	17:04	42m	17:47	41m	18:28	15h 35m	11h 25m				Di, 19. Nov
Mi, 20. Nov		18:27 – 20:24	1h 57m	AN_+ bis $M_↗$		20:24	13:06	05:53	41m	06:34	42m	07:16	42m	07:58	8h 23m	16:21	41m	17:03	42m	17:46	41m	18:27	15h 38m	11h 27m				Mi, 20. Nov
Do, 21. Nov		18:26 – 21:47	3h 20m	AN_+ bis $M_↗$		21:47	13:27	05:54	41m	06:35	42m	07:18	42m	08:00	8h 20m	16:20	42m	17:02	42m	17:45	41m	18:26	15h 41m	11h 29m				Do, 21. Nov
Fr, 22. Nov		18:25 – 23:06	4h 40m	AN_+ bis $M_↗$		23:06	13:41	05:56	41m	06:37	42m	07:19	42m	08:02	8h 17m	16:19	42m	17:01	42m	17:44	41m	18:25	15h 44m	11h 32m				Fr, 22. Nov
Sa, 23. Nov		18:24 – 00:21*	5h 56m	AN_+ bis $M_↗$	◑	—:—	13:52	05:57	41m	06:38	42m	07:21	42m	08:03	8h 14m	16:18	42m	17:00	42m	17:43	41m	18:24	15h 47m	11h 34m				Sa, 23. Nov
So, 24. Nov		18:23 – 01:33*	7h 09m	AN_+ bis $M_↗$		00:21	14:00	05:58	41m	06:40	42m	07:22	42m	08:05	8h 11m	16:17	42m	16:59	42m	17:42	41m	18:23	15h 49m	11h 36m				So, 24. Nov
Mo, 25. Nov		18:23 – 02:44*	8h 21m	AN_+ bis $M_↗$		01:33	14:08	06:00	41m	06:41	42m	07:24	42m	08:07	8h 09m	16:16	42m	16:59	42m	17:41	41m	18:23	15h 52m	11h 38m				Mo, 25. Nov
Di, 26. Nov		18:22 – 03:56*	9h 34m	AN_+ bis $M_↗$		02:44	14:15	06:01	41m	06:43	42m	07:25	42m	08:08	8h 06m	16:15	42m	16:58	42m	17:40	41m	18:22	15h 55m	11h 40m				Di, 26. Nov
Mi, 27. Nov		18:21 – 05:10*	10h 48m	AN_+ bis $M_↗$		03:56	14:24	06:02	41m	06:44	42m	07:27	43m	08:10	8h 03m	16:14	43m	16:57	42m	17:40	41m	18:21	15h 57m	11h 42m				Mi, 27. Nov
Do, 28. Nov		18:21 – 06:05*	11h 43m	AN_+ bis AN_-		05:10	14:34	06:04	41m	06:45	42m	07:28	43m	08:11	8h 01m	16:13	43m	16:56	42m	17:39	41m	18:21	16h 00m	11h 43m				Do, 28. Nov
Fr, 29. Nov		18:20 – 06:06*	11h 45m	AN_+ bis AN_-		06:26	14:47	06:05	41m	06:47	43m	07:30	43m	08:13	7h 59m	16:12	43m	16:56	43m	17:39	41m	18:20	16h 02m	11h 45m				Fr, 29. Nov
Sa, 30. Nov		18:20 – 06:07*	11h 47m	AN_+ bis AN_-		07:45	15:06	06:06	41m	06:48	43m	07:31	43m	08:15	7h 56m	16:11	43m	16:55	43m	17:38	41m	18:20	16h 04m	11h 47m				Sa, 30. Nov
So, 1. Dez		18:19 – 06:08*	11h 48m	AN_+ bis AN_-	●	09:02	15:34	06:07	41m	06:49	43m	07:32	43m	08:16	7h 54m	16:11	43m	16:54	43m	17:38	41m	18:19	16h 06m	11h 48m				So, 1. Dez
Mo, 2. Dez		18:19 – 06:10*	11h 50m	AN_+ bis AN_-		10:13	16:16	06:08	41m	06:50	43m	07:34	43m	08:17	7h 52m	16:10	43m	16:54	43m	17:37	41m	18:19	16h 08m	11h 50m				Mo, 2. Dez
Di, 3. Dez		18:19 – 06:11*	11h 51m	AN_+ bis AN_-		11:10	17:16	06:10	41m	06:51	43m	07:35	43m	08:19	7h 50m	16:09	43m	16:53	43m	17:37	41m	18:19	16h 10m	11h 51m				Di, 3. Dez
Mi, 4. Dez		18:32 – 06:12*	11h 39m	$M_↘$ bis AN_-		11:50	18:32	06:11	41m	06:53	43m	07:36	44m	08:20	7h 48m	16:09	44m	16:53	43m	17:36	41m	18:18	16h 12m	11h 53m				Mi, 4. Dez
Do, 5. Dez		19:57 – 06:13*	10h 15m	$M_↘$ bis AN_-		12:18	19:57	06:12	42m	06:54	43m	07:37	44m	08:22	7h 46m	16:08	44m	16:53	43m	17:36	42m	18:18	16h 14m	11h 54m				Do, 5. Dez
Fr, 6. Dez		21:25 – 06:14*	8h 48m	$M_↘$ bis AN_-		12:36	21:25	06:13	42m	06:55	43m	07:39	44m	08:23	7h 45m	16:08	44m	16:52	43m	17:36	42m	18:18	16h 16m	11h 55m				Fr, 6. Dez
Sa, 7. Dez		22:52 – 06:15*	7h 22m	$M_↘$ bis AN_-		12:50	22:52	06:14	42m	06:56	43m	07:40	44m	08:24	7h 43m	16:08	44m	16:52	43m	17:36	42m	18:18	16h 17m	11h 57m				Sa, 7. Dez
So, 8. Dez		00:19* – 06:16*	5h 57m	$M_↘$ bis AN_-	◐	13:01	—:—	06:15	42m	06:57	43m	07:41	44m	08:25	7h 41m	16:07	44m	16:52	43m	17:36	42m	18:18	16h 19m	11h 58m				So, 8. Dez
Mo, 9. Dez		01:46* – 06:17*	4h 30m	$M_↘$ bis AN_-		13:11	00:19	06:16	42m	06:58	43m	07:42	44m	08:26	7h 40m	16:07	44m	16:52	43m	17:35	42m	18:18	16h 20m	11h 59m				Mo, 9. Dez
Di, 10. Dez		03:15* – 06:18*	3h 02m	$M_↘$ bis AN_-		13:21	01:46	06:17	42m	06:59	43m	07:43	44m	08:28	7h 39m	16:07	44m	16:52	43m	17:35	42m	18:18	16h 21m	11h 59m				Di, 10. Dez
Mi, 11. Dez		04:47* – 06:18*	1h 31m	$M_↘$ bis AN_-		13:33	03:15	06:18	42m	07:00	43m	07:44	44m	08:29	7h 37m	16:07	44m	16:51	43m	17:35	42m	18:18	16h 23m	12h 00m				Mi, 11. Dez
Do, 12. Dez		—:— – —:—	–	Mond stört		13:48	04:47	06:18	42m	07:01	44m	07:45	44m	08:30	7h 36m	16:07	44m	16:51	44m	17:35	42m	18:18	16h 24m	12h 01m				Do, 12. Dez
Fr, 13. Dez		—:— – —:—	–	Mond stört		14:08	06:23	06:19	42m	07:02	44m	07:46	44m	08:31	7h 35m	16:07	44m	16:52	44m	17:36	42m	18:18	16h 25m	12h 02m				Fr, 13. Dez
Sa, 14. Dez		—:— – —:—	–	Mond stört		14:40	07:57	06:20	42m	07:02	44m	07:47	45m	08:32	7h 35m	16:07	45m	16:52	44m	17:36	42m	18:18	16h 25m	12h 02m				Sa, 14. Dez
So, 15. Dez		—:— – —:—	–	Mond stört	○	15:28	09:19	06:21	42m	07:03	44m	07:47	45m	08:32	7h 34m	16:07	45m	16:52	44m	17:36	42m	18:18	16h 26m	12h 03m				So, 15. 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
2024/25	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung						Sonne			Ende der Abenddämmerung						Nacht	Astr. N.	Naut. dunkel und kein Mond			2024/25
	zone		Δt		Ph.	↗	↘	Astr.	Δt	Naut.	Δt	Bürg.	Δt	↗	Δt	↘	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
Mo, 16. Dez		—:——:—	–	Mond stört		16:36	10:21	06:22	42m	07:04	44m	07:48	45m	08:33	7h 33m	16:07	45m	16:52	44m	17:36	42m	18:19	16h 27m	12h 03m				Mo, 16. Dez
Di, 17. Dez		—:——:—	–	Mond stört		17:57	11:02	06:22	42m	07:05	44m	07:49	45m	08:34	7h 33m	16:07	45m	16:52	44m	17:36	42m	18:19	16h 27m	12h 04m				Di, 17. Dez
Mi, 18. Dez		18:19 – 19:22	1h 02m	AN+ bis M↗		19:22	11:29	06:23	42m	07:05	44m	07:50	45m	08:35	7h 32m	16:07	45m	16:53	44m	17:37	42m	18:19	16h 27m	12h 04m				Mi, 18. Dez
Do, 19. Dez		18:20 – 20:44	2h 24m	AN+ bis M↗		20:44	11:46	06:24	42m	07:06	44m	07:50	45m	08:35	7h 32m	16:08	45m	16:53	44m	17:37	42m	18:20	16h 28m	12h 04m				Do, 19. Dez
Fr, 20. Dez		18:20 – 22:03	3h 42m	AN+ bis M↗		22:03	11:58	06:24	42m	07:07	44m	07:51	45m	08:36	7h 32m	16:08	45m	16:53	44m	17:38	42m	18:20	16h 28m	12h 04m				Fr, 20. Dez
Sa, 21. Dez		18:21 – 23:17	4h 56m	AN+ bis M↗		23:17	12:07	06:25	42m	07:07	44m	07:51	45m	08:36	7h 32m	16:09	45m	16:54	44m	17:38	42m	18:21	16h 28m	12h 04m				Sa, 21. Dez
So, 22. Dez		18:21 – 00:29*	6h 07m	AN+ bis M↗	◑	—:—	12:15	06:25	42m	07:08	44m	07:52	45m	08:37	7h 32m	16:09	45m	16:54	44m	17:39	42m	18:21	16h 28m	12h 04m				So, 22. Dez
Mo, 23. Dez		18:22 – 01:41*	7h 18m	AN+ bis M↗		00:29	12:23	06:26	42m	07:08	44m	07:52	45m	08:37	7h 32m	16:10	45m	16:55	44m	17:39	42m	18:22	16h 27m	12h 04m				Mo, 23. Dez
Di, 24. Dez		18:22 – 02:53*	8h 31m	AN+ bis M↗		01:41	12:31	06:26	42m	07:08	44m	07:53	45m	08:38	7h 32m	16:11	45m	16:56	44m	17:40	42m	18:22	16h 27m	12h 03m				Di, 24. Dez
Mi, 25. Dez		18:23 – 04:08*	9h 45m	AN+ bis M↗		02:53	12:40	06:26	42m	07:09	44m	07:53	45m	08:38	7h 33m	16:11	45m	16:56	44m	17:41	42m	18:23	16h 27m	12h 03m				Mi, 25. Dez
Do, 26. Dez		18:24 – 05:26*	11h 02m	AN+ bis M↗		04:08	12:52	06:27	42m	07:09	44m	07:53	45m	08:38	7h 33m	16:12	45m	16:57	44m	17:41	42m	18:24	16h 26m	12h 03m				Do, 26. Dez
Fr, 27. Dez		18:24 – 06:27*	12h 02m	AN+ bis AN–		05:26	13:09	06:27	42m	07:09	44m	07:53	45m	08:38	7h 34m	16:13	45m	16:58	44m	17:42	42m	18:24	16h 25m	12h 02m				Fr, 27. Dez
Sa, 28. Dez		18:25 – 06:27*	12h 02m	AN+ bis AN–		06:45	13:33	06:27	42m	07:09	44m	07:54	44m	08:39	7h 35m	16:14	45m	16:59	44m	17:43	42m	18:25	16h 24m	12h 02m				Sa, 28. Dez
So, 29. Dez		18:26 – 06:27*	12h 01m	AN+ bis AN–		07:59	14:10	06:27	42m	07:10	44m	07:54	44m	08:39	7h 36m	16:15	44m	17:00	44m	17:44	42m	18:26	16h 23m	12h 01m				So, 29. Dez
Mo, 30. Dez		18:27 – 06:28*	12h 00m	AN+ bis AN–	●	09:02	15:04	06:27	42m	07:10	44m	07:54	44m	08:39	7h 37m	16:16	44m	17:01	44m	17:45	42m	18:27	16h 22m	12h 00m				Mo, 30. Dez
Di, 31. Dez		18:28 – 06:28*	11h 59m	AN+ bis AN–		09:49	16:17	06:28	42m	07:10	43m	07:54	44m	08:39	7h 38m	16:17	44m	17:02	43m	17:45	42m	18:28	16h 21m	11h 59m				Di, 31. Dez
Mi, 1. Jan		18:29 – 06:28*	11h 58m	AN+ bis AN–		10:21	17:42	06:28	42m	07:10	43m	07:54	44m	08:38	7h 39m	16:18	44m	17:03	43m	17:46	42m	18:29	16h 20m	11h 58m				Mi, 1. Jan
Do, 2. Jan		19:11 – 06:28*	11h 16m	M↘ bis AN–		10:42	19:11	06:28	42m	07:10	43m	07:54	44m	08:38	7h 40m	16:19	44m	17:04	43m	17:47	42m	18:30	16h 18m	11h 57m				Do, 2. Jan
Fr, 3. Jan		20:40 – 06:27*	9h 47m	M↘ bis AN–		10:57	20:40	06:28	42m	07:10	43m	07:53	44m	08:38	7h 42m	16:20	44m	17:05	43m	17:48	42m	18:31	16h 17m	11h 56m				Fr, 3. Jan
Sa, 4. Jan		22:07 – 06:27*	8h 20m	M↘ bis AN–		11:09	22:07	06:27	42m	07:10	43m	07:53	44m	08:38	7h 43m	16:21	44m	17:06	43m	17:50	42m	18:32	16h 15m	11h 55m				Sa, 4. Jan
So, 5. Jan		23:33 – 06:27*	6h 53m	M↘ bis AN–		11:19	23:33	06:27	42m	07:09	43m	07:53	44m	08:37	7h 45m	16:23	44m	17:07	43m	17:51	42m	18:33	16h 14m	11h 54m				So, 5. Jan
Mo, 6. Jan		01:00* – 06:27*	5h 26m	M↘ bis AN–		11:29	—:—	06:27	42m	07:09	43m	07:53	44m	08:37	7h 47m	16:24	44m	17:08	43m	17:52	42m	18:34	16h 12m	11h 53m				Mo, 6. Jan
Di, 7. Jan		02:29* – 06:27*	3h 57m	M↘ bis AN–	◐	11:40	01:00	06:27	41m	07:09	43m	07:52	44m	08:36	7h 49m	16:25	44m	17:09	43m	17:53	41m	18:35	16h 10m	11h 51m				Di, 7. Jan
Mi, 8. Jan		04:01* – 06:26*	2h 25m	M↘ bis AN–		11:53	02:29	06:27	41m	07:08	43m	07:52	43m	08:36	7h 50m	16:27	43m	17:11	43m	17:54	41m	18:36	16h 08m	11h 50m				Mi, 8. Jan
Do, 9. Jan		05:33* – 06:26*	52m	M↘ bis AN–		12:10	04:01	06:26	41m	07:08	43m	07:51	43m	08:35	7h 53m	16:28	43m	17:12	43m	17:55	41m	18:37	16h 06m	11h 48m				Do, 9. Jan
Fr, 10. Jan		—:——:—	–	Mond stört		12:36	05:33	06:26	41m	07:08	43m	07:51	43m	08:35	7h 55m	16:30	43m	17:13	43m	17:57	41m	18:38	16h 04m	11h 46m				Fr, 10. Jan
Sa, 11. Jan		—:——:—	–	Mond stört		13:16	06:59	06:25	41m	07:07	43m	07:50	43m	08:34	7h 57m	16:31	43m	17:15	43m	17:58	41m	18:40	16h 01m	11h 45m				Sa, 11. Jan
So, 12. Jan		—:——:—	–	Mond stört		14:14	08:08	06:25	41m	07:07	43m	07:50	43m	08:33	7h 59m	16:33	43m	17:16	43m	17:59	41m	18:41	15h 59m	11h 43m				So, 12. Jan
Mo, 13. Jan		—:——:—	–	Mond stört	○	15:30	08:57	06:24	41m	07:06	42m	07:49	43m	08:32	8h 02m	16:34	43m	17:18	42m	18:01	41m	18:42	15h 56m	11h 41m				Mo, 13. Jan
Di, 14. Jan		—:——:—	–	Mond stört		16:55	09:29	06:24	41m	07:05	42m	07:48	43m	08:31	8h 04m	16:36	43m	17:19	42m	18:02	41m	18:44	15h 54m	11h 39m				Di, 14. Jan
Mi, 15. Jan		—:——:—	–	Mond stört		18:19	09:49	06:23	41m	07:05	42m	07:48	42m	08:30	8h 07m	16:38	42m	17:21	42m	18:03	41m	18:45	15h 51m	11h 37m				Mi, 15. Jan
Do, 16. Jan		18:46 – 19:40	54m	AN+ bis M↗		19:40	10:03	06:23	41m	07:04	42m	07:47	42m	08:29	8h 09m	16:39	42m	17:22	42m	18:05	41m	18:46	15h 49m	11h 35m				Do, 16. Jan
Fr, 17. Jan		18:48 – 20:58	2h 09m	AN+ bis M↗		20:58	10:14	06:22	41m	07:03	42m	07:46	42m	08:28	8h 12m	16:41	42m	17:24	42m	18:06	41m	18:48	15h 46m	11h 33m				Fr, 17. Jan
Sa, 18. Jan		18:49 – 22:11	3h 22m	AN+ bis M↗		22:11	10:23	06:21	41m	07:02	42m	07:45	42m	08:27	8h 15m	16:43	42m	17:25	42m	18:08	41m	18:49	15h 43m	11h 31m				Sa, 18. Jan
So, 19. Jan		18:50 – 23:24	4h 33m	AN+ bis M↗		23:24	10:30	06:20	41m	07:02	42m	07:44	42m	08:26	8h 18m	16:44	42m	17:27	42m	18:09	41m	18:50	15h 40m	11h 29m				So, 19. Jan
Mo, 20. Jan		18:52 – 00:36*	5h 44m	AN+ bis M↗		—:—	10:38	06:20	41m	07:01	42m	07:43	42m	08:25	8h 21m	16:46	42m	17:28	42m	18:11	41m	18:52	15h 37m	11h 26m				Mo, 20. Jan
Di, 21. Jan		18:53 – 01:50*	6h 56m	AN+ bis M↗	◑	00:36	10:47	06:19	41m	07:00	42m	07:42	41m	08:24	8h 24m	16:48	41m	17:30	42m	18:12	41m	18:53	15h 34m	11h 24m				Di, 21. Jan
Mi, 22. Jan		18:55 – 03:06*	8h 11m	AN+ bis M↗		01:50	10:57	06:18	41m	06:59	41m	07:41	41m	08:23	8h 27m	16:50	41m	17:32	42m	18:14	41m	18:55	15h 31m	11h 22m				Mi, 22. Jan
Do, 23. Jan		18:56 – 04:24*	9h 27m	AN+ bis M↗		03:06	11:11	06:17	41m	06:58	41m	07:40	41m	08:21	8h 30m	16:52	41m	17:33	41m	18:15	41m	18:56	15h 28m	11h 19m				Do, 23. Jan
Fr, 24. Jan		18:58 – 05:40*	10h 42m	AN+ bis M↗		04:24	11:31	06:16	40m	06:57	41m	07:38	41m	08:20	8h 33m	16:54	41m	17:35	41m	18:17	40m	18:58	15h 24m	11h 16m				Fr, 24. Jan
Sa, 25. Jan		18:59 – 06:14*	11h 14m	AN+ bis AN–		05:40	12:02	06:15	40m	06:56	41m	07:37	41m	08:19	8h 36m	16:55	41m	17:37	41m	18:18	40m	18:59	15h 21m	11h 14m				Sa, 25. Jan
So, 26. Jan		19:01 – 06:12*	11h 11m	AN+ bis AN–		06:49	12:48	06:14	40m	06:54	41m	07:36	41m	08:17	8h 40m	16:57	41m	17:38	41m	18:20	40m	19:01	15h 18m	11h 11m				So, 26. Jan
Mo, 27. Jan		19:02 – 06:11*	11h 08m	AN+ bis AN–		07:43	13:54	06:12	40m	06:53	41m	07:35	40m	08:16	8h 43m	16:59	40m	17:40	41m	18:22	40m	19:02	15h 14m	11h 08m				Mo, 27. Jan
Di, 28. Jan		19:04 – 06:10*	11h 06m	AN+ bis AN–		08:20	15:15	06:11	40m	06:52	41m	07:33	40m	08:14	8h 46m	17:01	40m	17:42	41m	18:23	40m	19:04	15h 11m	11h 06m				Di, 28. Jan
Mi, 29. Jan		19:06 – 06:09*	11h 03m	AN+ bis AN–	●	08:46	16:45	06:10	40m	06:51	41m	07:32	40m	08:13	8h 50m	17:03	40m	17:44	41m	18:25	40m	19:06	15h 08m	11h 03m				Mi, 29. Jan
Do, 30. Jan		19:07 – 06:08*	11h 00m	AN+ bis AN–		09:03	18:17	06:09	40m	06:49	41m	07:31	40m	08:11	8h 53m	17:05	40m	17:45	41m	18:27	40m	19:07	15h 04m	11h 00m				Do, 30. Jan
Fr, 31. Jan		19:48 – 06:06*	10h 18m	M↘ bis AN–		09:16	19:48	06:08	40m	06:48	41m	07:29	40m	08:09	8h 57m	17:07	40m	17:47	41m	18:28	40m	19:09	15h 00m	10h 57m				Fr, 31. Jan
Sa, 1. Feb		21:17 – 06:05*	8h 47m	M↘ bis AN–		09:27	21:17	06:06	40m	06:47	40m	07:28	40m	08:08	9h 01m	17:09	40m	17:49	40m	18:30	40m	19:10	14h 57m	10h 54m				Sa, 1. Feb
So, 2. Feb		22:46 – 06:03*	7h 17m	M↘ bis AN–		09:37	22:46	06:05	40m	06:45	40m	07:26	39m	08:06	9h 04m	17:11	40m	17:51	40m	18:32	40m	19:12	14h 53m	10h 51m				So, 2. Feb
Mo, 3. Feb		00:16* – 06:02*	5h 45m	M↘ bis AN–		09:47	—:—	06:03	40m	06:44	40m	07:25	39m	08:04	9h 08m	17:13	39m	17:53	40m	18:33	40m	19:14	14h 49m	10h 48m				Mo, 3. Feb