Mond- und Dämmerungstabelle 2023

für die visuelle Deep-Sky-Beobachtung

Leipzig 51.3403° N 12.3747° 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		03:58* – 06:10*	*2h 12m*	M↘ *bis* AN−		12:41	02:42	06:10	*40m*	06:50	*41m*	07:32	*42m*	08:14	*7h 58m*	16:13	*42m*	16:55	*41m*	17:37	*40m*	18:17	*16h 01m*	*11h 53m*				So, 1. Jan
Mo, 2. Jan		05:13* – 06:10*	*56m*	M↘ *bis* AN−		12:58	03:58	06:10	*40m*	06:51	*41m*	07:32	*42m*	08:14	*7h 59m*	16:14	*42m*	16:56	*41m*	17:37	*40m*	18:18	*16h 00m*	*11h 52m*				Mo, 2. Jan
Di, 3. Jan		—:— – —:—	–	Mond stört		13:20	05:13	06:10	*40m*	06:50	*41m*	07:32	*41m*	08:14	*8h 00m*	16:15	*41m*	16:57	*41m*	17:38	*40m*	18:19	*15h 59m*	*11h 51m*				Di, 3. Jan
Mi, 4. Jan		—:— – —:—	–	Mond stört		13:50	06:26	06:10	*40m*	06:50	*41m*	07:32	*41m*	08:14	*8h 02m*	16:16	*41m*	16:58	*41m*	17:39	*40m*	18:20	*15h 57m*	*11h 50m*				Mi, 4. Jan
Do, 5. Jan		—:— – —:—	–	Mond stört		14:29	07:32	06:10	*40m*	06:50	*41m*	07:32	*41m*	08:14	*8h 03m*	16:17	*41m*	16:59	*41m*	17:40	*40m*	18:21	*15h 56m*	*11h 49m*				Do, 5. Jan
Fr, 6. Jan		—:— – —:—	–	Mond stört		15:20	08:27	06:10	*40m*	06:50	*41m*	07:32	*41m*	08:13	*8h 05m*	16:18	*41m*	17:00	*41m*	17:42	*40m*	18:22	*15h 54m*	*11h 47m*				Fr, 6. Jan
Sa, 7. Jan		—:— – —:—	–	Mond stört	○	16:22	09:11	06:10	*40m*	06:50	*41m*	07:31	*41m*	08:13	*8h 06m*	16:20	*41m*	17:01	*41m*	17:43	*40m*	18:23	*15h 52m*	*11h 46m*				Sa, 7. Jan
So, 8. Jan		—:— – —:—	–	Mond stört		17:30	09:43	06:10	*40m*	06:50	*41m*	07:31	*41m*	08:12	*8h 08m*	16:21	*41m*	17:02	*41m*	17:44	*40m*	18:24	*15h 51m*	*11h 45m*				So, 8. Jan
Mo, 9. Jan		18:25 – 18:41	*16m*	AN+ *bis* M↗		18:41	10:07	06:09	*40m*	06:49	*41m*	07:31	*41m*	08:12	*8h 10m*	16:22	*41m*	17:04	*41m*	17:45	*40m*	18:25	*15h 49m*	*11h 43m*				Mo, 9. Jan
Di, 10. Jan		18:26 – 19:53	*1h 26m*	AN+ *bis* M↗		19:53	10:25	06:09	*40m*	06:49	*41m*	07:30	*41m*	08:11	*8h 12m*	16:24	*41m*	17:05	*41m*	17:46	*40m*	18:26	*15h 47m*	*11h 42m*				Di, 10. Jan
Mi, 11. Jan		18:27 – 21:04	*2h 36m*	AN+ *bis* M↗		21:04	10:40	06:09	*39m*	06:49	*41m*	07:30	*41m*	08:11	*8h 14m*	16:25	*41m*	17:06	*41m*	17:47	*40m*	18:27	*15h 45m*	*11h 40m*				Mi, 11. Jan
Do, 12. Jan		18:29 – 22:15	*3h 46m*	AN+ *bis* M↗		22:15	10:52	06:08	*39m*	06:48	*41m*	07:29	*41m*	08:10	*8h 16m*	16:26	*41m*	17:07	*41m*	17:49	*39m*	18:29	*15h 43m*	*11h 39m*				Do, 12. Jan
Fr, 13. Jan		18:30 – 23:27	*4h 57m*	AN+ *bis* M↗		23:27	11:04	06:08	*39m*	06:48	*40m*	07:29	*40m*	08:10	*8h 18m*	16:28	*40m*	17:09	*40m*	17:50	*39m*	18:30	*15h 40m*	*11h 37m*				Fr, 13. Jan
Sa, 14. Jan		18:31 – 00:41*	*6h 10m*	AN+ *bis* M↗		—:—	11:16	06:07	*39m*	06:47	*40m*	07:28	*40m*	08:09	*8h 20m*	16:29	*40m*	17:10	*40m*	17:51	*39m*	18:31	*15h 38m*	*11h 35m*				Sa, 14. Jan
So, 15. Jan		18:32 – 01:59*	*7h 26m*	AN+ *bis* M↗	◑	00:41	11:28	06:07	*39m*	06:47	*40m*	07:27	*40m*	08:08	*8h 22m*	16:31	*40m*	17:12	*40m*	17:52	*39m*	18:32	*15h 36m*	*11h 34m*				So, 15. Jan
Mo, 16. Jan		18:33 – 03:22*	*8h 48m*	AN+ *bis* M↗		01:59	11:44	06:06	*39m*	06:46	*40m*	07:27	*40m*	08:07	*8h 25m*	16:32	*40m*	17:13	*40m*	17:54	*39m*	18:33	*15h 33m*	*11h 32m*				Mo, 16. Jan
Di, 17. Jan		18:35 – 04:48*	*10h 13m*	AN+ *bis* M↗		03:22	12:05	06:06	*39m*	06:45	*40m*	07:26	*40m*	08:06	*8h 27m*	16:34	*40m*	17:14	*40m*	17:55	*39m*	18:35	*15h 31m*	*11h 30m*				Di, 17. Jan
Mi, 18. Jan		18:36 – 06:04*	*11h 28m*	AN+ *bis* AN−		04:48	12:34	06:05	*39m*	06:45	*40m*	07:25	*40m*	08:05	*8h 30m*	16:36	*40m*	17:16	*40m*	17:56	*39m*	18:36	*15h 28m*	*11h 28m*				Mi, 18. Jan
Do, 19. Jan		18:37 – 06:04*	*11h 26m*	AN+ *bis* AN−		06:13	13:17	06:04	*39m*	06:44	*40m*	07:24	*40m*	08:04	*8h 32m*	16:37	*40m*	17:17	*40m*	17:58	*39m*	18:37	*15h 26m*	*11h 26m*				Do, 19. Jan
Fr, 20. Jan		18:39 – 06:03*	*11h 24m*	AN+ *bis* AN−		07:27	14:21	06:04	*39m*	06:43	*40m*	07:23	*39m*	08:03	*8h 35m*	16:39	*39m*	17:19	*40m*	17:59	*39m*	18:39	*15h 23m*	*11h 24m*				Fr, 20. Jan
Sa, 21. Jan		18:40 – 06:02*	*11h 21m*	AN+ *bis* AN−	●	08:24	15:43	06:03	*39m*	06:42	*40m*	07:22	*39m*	08:02	*8h 38m*	16:41	*39m*	17:20	*40m*	18:01	*39m*	18:40	*15h 20m*	*11h 21m*				Sa, 21. Jan
So, 22. Jan		18:42 – 06:01*	*11h 19m*	AN+ *bis* AN−		09:03	17:17	06:02	*39m*	06:41	*40m*	07:21	*39m*	08:01	*8h 41m*	16:42	*39m*	17:22	*40m*	18:02	*39m*	18:42	*15h 17m*	*11h 19m*				So, 22. Jan
Mo, 23. Jan		18:51 – 06:00*	*11h 09m*	M↘ *bis* AN−		09:30	18:51	06:01	*39m*	06:40	*40m*	07:20	*39m*	08:00	*8h 43m*	16:44	*39m*	17:24	*40m*	18:04	*39m*	18:43	*15h 14m*	*11h 17m*				Mo, 23. Jan
Di, 24. Jan		20:22 – 05:59*	*9h 37m*	M↘ *bis* AN−		09:50	20:22	06:00	*39m*	06:39	*39m*	07:19	*39m*	07:59	*8h 46m*	16:46	*39m*	17:25	*39m*	18:05	*39m*	18:44	*15h 11m*	*11h 14m*				Di, 24. Jan
Mi, 25. Jan		21:47 – 05:58*	*8h 11m*	M↘ *bis* AN−		10:05	21:47	05:59	*39m*	06:38	*39m*	07:18	*39m*	07:58	*8h 49m*	16:47	*39m*	17:27	*39m*	18:07	*39m*	18:46	*15h 08m*	*11h 12m*				Mi, 25. Jan
Do, 26. Jan		23:09 – 05:57*	*6h 48m*	M↘ *bis* AN−		10:19	23:09	05:58	*39m*	06:37	*39m*	07:17	*39m*	07:56	*8h 52m*	16:49	*39m*	17:28	*39m*	18:08	*39m*	18:47	*15h 05m*	*11h 10m*				Do, 26. Jan
Fr, 27. Jan		00:29* – 05:56*	*5h 27m*	M↘ *bis* AN−		10:32	—:—	05:57	*39m*	06:36	*39m*	07:16	*38m*	07:55	*8h 55m*	16:51	*38m*	17:30	*39m*	18:10	*39m*	18:49	*15h 02m*	*11h 07m*				Fr, 27. Jan
Sa, 28. Jan		01:47* – 05:55*	*4h 08m*	M↘ *bis* AN−	◐	10:46	00:29	05:56	*39m*	06:35	*39m*	07:15	*38m*	07:54	*8h 59m*	16:53	*38m*	17:32	*39m*	18:11	*39m*	18:50	*14h 59m*	*11h 04m*				Sa, 28. Jan
So, 29. Jan		03:03* – 05:54*	*2h 50m*	M↘ *bis* AN−		11:03	01:47	05:55	*38m*	06:34	*39m*	07:14	*38m*	07:52	*9h 02m*	16:54	*38m*	17:33	*39m*	18:13	*39m*	18:52	*14h 56m*	*11h 02m*				So, 29. Jan
Mo, 30. Jan		04:17* – 05:53*	*1h 35m*	M↘ *bis* AN−		11:24	03:03	05:54	*38m*	06:33	*39m*	07:12	*38m*	07:51	*9h 05m*	16:56	*38m*	17:35	*39m*	18:14	*38m*	18:53	*14h 53m*	*10h 59m*				Mo, 30. Jan
Di, 31. Jan		05:25* – 05:52*	*26m*	M↘ *bis* AN−		11:51	04:17	05:53	*38m*	06:32	*39m*	07:11	*38m*	07:49	*9h 08m*	16:58	*38m*	17:36	*39m*	18:16	*38m*	18:55	*14h 49m*	*10h 56m*				Di, 31. Jan
Mi, 1. Feb		—:— – —:—	–	Mond stört		12:27	05:25	05:52	*38m*	06:30	*39m*	07:10	*38m*	07:48	*9h 11m*	17:00	*38m*	17:38	*39m*	18:17	*38m*	18:56	*14h 46m*	*10h 54m*				Mi, 1. Feb
Do, 2. Feb		—:— – —:—	–	Mond stört		13:14	06:24	05:50	*38m*	06:29	*39m*	07:08	*38m*	07:46	*9h 15m*	17:02	*38m*	17:40	*39m*	18:19	*38m*	18:58	*14h 43m*	*10h 51m*				Do, 2. Feb
Fr, 3. Feb		—:— – —:—	–	Mond stört		14:13	07:11	05:49	*38m*	06:28	*39m*	07:07	*37m*	07:45	*9h 18m*	17:03	*38m*	17:41	*39m*	18:20	*38m*	18:59	*14h 39m*	*10h 48m*				Fr, 3. Feb
Sa, 4. Feb		—:— – —:—	–	Mond stört		15:19	07:46	05:48	*38m*	06:26	*38m*	07:05	*37m*	07:43	*9h 22m*	17:05	*37m*	17:43	*38m*	18:22	*38m*	19:01	*14h 36m*	*10h 45m*				Sa, 4. Feb
So, 5. Feb		—:— – —:—	–	Mond stört	○	16:30	08:12	05:46	*38m*	06:25	*38m*	07:04	*37m*	07:42	*9h 25m*	17:07	*37m*	17:45	*38m*	18:24	*38m*	19:02	*14h 32m*	*10h 42m*				So, 5. Feb
Mo, 6. Feb		—:— – —:—	–	Mond stört		17:43	08:32	05:45	*38m*	06:24	*38m*	07:02	*37m*	07:40	*9h 28m*	17:09	*37m*	17:46	*38m*	18:25	*38m*	19:04	*14h 29m*	*10h 39m*				Mo, 6. Feb
Di, 7. Feb		—:— – —:—	–	Mond stört		18:55	08:47	05:43	*38m*	06:22	*38m*	07:01	*37m*	07:38	*9h 32m*	17:11	*37m*	17:48	*38m*	18:27	*38m*	19:06	*14h 25m*	*10h 36m*				Di, 7. Feb
Mi, 8. Feb		19:07 – 20:06	*58m*	AN+ *bis* M↗		20:06	09:00	05:42	*38m*	06:21	*38m*	06:59	*37m*	07:36	*9h 35m*	17:12	*37m*	17:50	*38m*	18:28	*38m*	19:07	*14h 22m*	*10h 33m*				Mi, 8. Feb
Do, 9. Feb		19:09 – 21:17	*2h 08m*	AN+ *bis* M↗		21:17	09:11	05:40	*38m*	06:19	*38m*	06:58	*37m*	07:35	*9h 39m*	17:14	*37m*	17:52	*38m*	18:30	*38m*	19:09	*14h 18m*	*10h 30m*				Do, 9. Feb
Fr, 10. Feb		19:10 – 22:30	*3h 19m*	AN+ *bis* M↗		22:30	09:23	05:39	*38m*	06:17	*38m*	06:56	*37m*	07:33	*9h 43m*	17:16	*37m*	17:53	*38m*	18:32	*38m*	19:10	*14h 15m*	*10h 27m*				Fr, 10. Feb
Sa, 11. Feb		19:12 – 23:45	*4h 33m*	AN+ *bis* M↗		23:45	09:35	05:37	*38m*	06:16	*38m*	06:54	*36m*	07:31	*9h 46m*	17:18	*37m*	17:55	*38m*	18:33	*38m*	19:12	*14h 11m*	*10h 23m*				Sa, 11. Feb
So, 12. Feb		19:14 – 01:04*	*5h 50m*	AN+ *bis* M↗		—:—	09:49	05:36	*38m*	06:14	*38m*	06:52	*36m*	07:29	*9h 50m*	17:20	*36m*	17:57	*38m*	18:35	*38m*	19:14	*14h 07m*	*10h 20m*				So, 12. Feb
Mo, 13. Feb		19:15 – 02:27*	*7h 11m*	AN+ *bis* M↗	◑	01:04	10:06	05:34	*38m*	06:13	*38m*	06:51	*36m*	07:28	*9h 54m*	17:22	*36m*	17:58	*38m*	18:37	*38m*	19:15	*14h 04m*	*10h 17m*				Mo, 13. Feb
Di, 14. Feb		19:17 – 03:50*	*8h 32m*	AN+ *bis* M↗		02:27	10:30	05:32	*38m*	06:11	*38m*	06:49	*36m*	07:26	*9h 57m*	17:23	*36m*	18:00	*38m*	18:38	*38m*	19:17	*14h 00m*	*10h 13m*				Di, 14. Feb
Mi, 15. Feb		19:18 – 05:07*	*9h 48m*	AN+ *bis* M↗		03:50	11:06	05:31	*38m*	06:09	*38m*	06:47	*36m*	07:24	*10h 01m*	17:25	*36m*	18:02	*38m*	18:40	*38m*	19:18	*13h 56m*	*10h 10m*				Mi, 15. Feb
Do, 16. Feb		19:20 – 05:27*	*10h 07m*	AN+ *bis* AN−		05:07	11:57	05:29	*38m*	06:07	*38m*	06:45	*36m*	07:22	*10h 05m*	17:27	*36m*	18:03	*38m*	18:42	*38m*	19:20	*13h 52m*	*10h 07m*				Do, 16. Feb
Fr, 17. Feb		19:22 – 05:25*	*10h 03m*	AN+ *bis* AN−		06:10	13:09	05:27	*38m*	06:06	*38m*	06:44	*36m*	07:20	*10h 08m*	17:29	*36m*	18:05	*38m*	18:43	*38m*	19:22	*13h 49m*	*10h 03m*				Fr, 17. Feb
Sa, 18. Feb		19:23 – 05:24*	*10h 00m*	AN+ *bis* AN−		06:56	14:37	05:25	*38m*	06:04	*37m*	06:42	*36m*	07:18	*10h 12m*	17:31	*36m*	18:07	*38m*	18:45	*38m*	19:23	*13h 45m*	*10h 00m*				Sa, 18. Feb
So, 19. Feb		19:25 – 05:22*	*9h 56m*	AN+ *bis* AN−		07:28	16:11	05:24	*38m*	06:02	*37m*	06:40	*36m*	07:16	*10h 16m*	17:32	*36m*	18:09	*37m*	18:47	*38m*	19:25	*13h 41m*	*9h 56m*				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		19:27 – 05:20*	*9h 52m*	AN_+ *bis* AN_-	●	07:51	17:45	05:22	*38m*	06:00	*37m*	06:38	*36m*	07:14	*10h 20m*	17:34	*36m*	18:10	*37m*	18:48	*38m*	19:27	*13h 37m*	*9h 52m*				Mo, 20. Feb
Di, 21. Feb		19:28 – 05:18*	*9h 49m*	AN_+ *bis* AN_-		08:08	19:15	05:20	*38m*	05:58	*37m*	06:36	*36m*	07:12	*10h 23m*	17:36	*36m*	18:12	*37m*	18:50	*38m*	19:28	*13h 33m*	*9h 49m*				Di, 21. Feb
Mi, 22. Feb		20:42 – 05:16*	*8h 34m*	$M_↘$ *bis* AN_-		08:23	20:42	05:18	*38m*	05:56	*37m*	06:34	*35m*	07:10	*10h 27m*	17:38	*35m*	18:14	*37m*	18:52	*38m*	19:30	*13h 30m*	*9h 45m*				Mi, 22. Feb
Do, 23. Feb		22:05 – 05:14*	*7h 08m*	$M_↘$ *bis* AN_-		08:37	22:05	05:16	*38m*	05:54	*37m*	06:32	*35m*	07:08	*10h 31m*	17:40	*35m*	18:15	*37m*	18:53	*38m*	19:32	*13h 26m*	*9h 42m*				Do, 23. Feb
Fr, 24. Feb		23:27 – 05:12*	*5h 44m*	$M_↘$ *bis* AN_-		08:51	23:27	05:14	*38m*	05:52	*37m*	06:30	*35m*	07:06	*10h 35m*	17:41	*35m*	18:17	*37m*	18:55	*38m*	19:34	*13h 22m*	*9h 38m*				Fr, 24. Feb
Sa, 25. Feb		00:47* – 05:10*	*4h 22m*	$M_↘$ *bis* AN_-		09:06	—:—	05:12	*38m*	05:50	*37m*	06:28	*35m*	07:04	*10h 39m*	17:43	*35m*	18:19	*37m*	18:57	*38m*	19:35	*13h 18m*	*9h 34m*				Sa, 25. Feb
So, 26. Feb		02:05* – 05:08*	*3h 03m*	$M_↘$ *bis* AN_-		09:25	00:47	05:10	*38m*	05:48	*37m*	06:26	*35m*	07:02	*10h 43m*	17:45	*35m*	18:21	*37m*	18:58	*38m*	19:37	*13h 14m*	*9h 30m*				So, 26. Feb
Mo, 27. Feb		03:17* – 05:06*	*1h 49m*	$M_↘$ *bis* AN_-	◐	09:50	02:05	05:08	*38m*	05:46	*37m*	06:24	*35m*	07:00	*10h 47m*	17:47	*35m*	18:22	*37m*	19:00	*38m*	19:39	*13h 10m*	*9h 26m*				Mo, 27. Feb
Di, 28. Feb		04:20* – 05:04*	*44m*	$M_↘$ *bis* AN_-		10:23	03:17	05:06	*38m*	05:44	*37m*	06:22	*35m*	06:58	*10h 50m*	17:48	*35m*	18:24	*37m*	19:02	*38m*	19:41	*13h 06m*	*9h 23m*				Di, 28. Feb
Mi, 1. Mär		—:— – —:—	–	Mond stört		11:07	04:20	05:04	*38m*	05:42	*37m*	06:20	*35m*	06:55	*10h 54m*	17:50	*35m*	18:26	*37m*	19:04	*38m*	19:42	*13h 03m*	*9h 19m*				Mi, 1. Mär
Do, 2. Mär		—:— – —:—	–	Mond stört		12:03	05:10	05:01	*38m*	05:40	*37m*	06:18	*35m*	06:53	*10h 58m*	17:52	*35m*	18:27	*37m*	19:05	*38m*	19:44	*12h 59m*	*9h 15m*				Do, 2. Mär
Fr, 3. Mär		—:— – —:—	–	Mond stört		13:07	05:49	04:59	*38m*	05:38	*37m*	06:16	*35m*	06:51	*11h 02m*	17:54	*35m*	18:29	*37m*	19:07	*38m*	19:46	*12h 55m*	*9h 11m*				Fr, 3. Mär
Sa, 4. Mär		—:— – —:—	–	Mond stört		14:18	06:17	04:57	*38m*	05:36	*37m*	06:14	*35m*	06:49	*11h 06m*	17:55	*35m*	18:31	*37m*	19:09	*38m*	19:48	*12h 51m*	*9h 07m*				Sa, 4. Mär
So, 5. Mär		—:— – —:—	–	Mond stört		15:30	06:38	04:55	*38m*	05:34	*37m*	06:11	*35m*	06:47	*11h 10m*	17:57	*35m*	18:33	*37m*	19:10	*39m*	19:49	*12h 47m*	*9h 03m*				So, 5. Mär
Mo, 6. Mär		—:— – —:—	–	Mond stört		16:43	06:55	04:53	*38m*	05:32	*37m*	06:09	*35m*	06:45	*11h 14m*	17:59	*35m*	18:34	*37m*	19:12	*39m*	19:51	*12h 43m*	*8h 59m*				Mo, 6. Mär
Di, 7. Mär		—:— – —:—	–	Mond stört	○	17:55	07:08	04:50	*39m*	05:29	*37m*	06:07	*35m*	06:42	*11h 18m*	18:01	*35m*	18:36	*37m*	19:14	*39m*	19:53	*12h 39m*	*8h 55m*				Di, 7. Mär
Mi, 8. Mär		—:— – —:—	–	Mond stört		19:07	07:20	04:48	*39m*	05:27	*37m*	06:05	*35m*	06:40	*11h 22m*	18:02	*35m*	18:38	*37m*	19:16	*39m*	19:55	*12h 35m*	*8h 50m*				Mi, 8. Mär
Do, 9. Mär		19:57 – 20:20	*23m*	AN_+ *bis* $M_↗$		20:20	07:31	04:46	*39m*	05:25	*37m*	06:03	*35m*	06:38	*11h 26m*	18:04	*35m*	18:39	*37m*	19:17	*39m*	19:57	*12h 31m*	*8h 46m*				Do, 9. Mär
Fr, 10. Mär		19:59 – 21:35	*1h 36m*	AN_+ *bis* $M_↗$		21:35	07:42	04:43	*39m*	05:23	*37m*	06:01	*35m*	06:36	*11h 30m*	18:06	*35m*	18:41	*37m*	19:19	*39m*	19:59	*12h 27m*	*8h 42m*				Fr, 10. Mär
Sa, 11. Mär		20:00 – 22:53	*2h 52m*	AN_+ *bis* $M_↗$		22:53	07:55	04:41	*39m*	05:21	*37m*	05:58	*35m*	06:34	*11h 33m*	18:08	*35m*	18:43	*37m*	19:21	*39m*	20:00	*12h 23m*	*8h 38m*				Sa, 11. Mär
So, 12. Mär		20:02 – 00:14*	*4h 12m*	AN_+ *bis* $M_↗$		—:—	08:11	04:39	*39m*	05:18	*37m*	05:56	*35m*	06:31	*11h 37m*	18:09	*35m*	18:44	*38m*	19:22	*39m*	20:02	*12h 19m*	*8h 34m*				So, 12. Mär
Mo, 13. Mär		20:04 – 01:37*	*5h 32m*	AN_+ *bis* $M_↗$		00:14	08:33	04:36	*39m*	05:16	*37m*	05:54	*35m*	06:29	*11h 41m*	18:11	*35m*	18:46	*38m*	19:24	*39m*	20:04	*12h 15m*	*8h 29m*				Mo, 13. Mär
Di, 14. Mär		20:06 – 02:55*	*6h 48m*	AN_+ *bis* $M_↗$		01:37	09:03	04:34	*39m*	05:14	*37m*	05:52	*35m*	06:27	*11h 45m*	18:13	*35m*	18:48	*38m*	19:26	*40m*	20:06	*12h 11m*	*8h 25m*				Di, 14. Mär
Mi, 15. Mär		20:08 – 04:02*	*7h 53m*	AN_+ *bis* $M_↗$	◑	02:55	09:47	04:31	*39m*	05:11	*38m*	05:49	*35m*	06:25	*11h 49m*	18:14	*35m*	18:50	*38m*	19:28	*40m*	20:08	*12h 07m*	*8h 21m*				Mi, 15. Mär
Do, 16. Mär		20:10 – 04:26*	*8h 16m*	AN_+ *bis* AN_-		04:02	10:49	04:29	*40m*	05:09	*38m*	05:47	*35m*	06:22	*11h 53m*	18:16	*35m*	18:51	*38m*	19:30	*40m*	20:10	*12h 04m*	*8h 16m*				Do, 16. Mär
Fr, 17. Mär		20:12 – 04:24*	*8h 12m*	AN_+ *bis* AN_-		04:52	12:08	04:26	*40m*	05:07	*38m*	05:45	*35m*	06:20	*11h 57m*	18:18	*35m*	18:53	*38m*	19:31	*40m*	20:12	*12h 00m*	*8h 12m*				Fr, 17. Mär
Sa, 18. Mär		20:14 – 04:21*	*8h 07m*	AN_+ *bis* AN_-		05:28	13:38	04:24	*40m*	05:04	*38m*	05:43	*35m*	06:18	*12h 01m*	18:19	*35m*	18:55	*38m*	19:33	*40m*	20:14	*11h 56m*	*8h 07m*				Sa, 18. Mär
So, 19. Mär		20:16 – 04:19*	*8h 03m*	AN_+ *bis* AN_-		05:53	15:10	04:21	*40m*	05:02	*38m*	05:40	*35m*	06:16	*12h 05m*	18:21	*35m*	18:56	*38m*	19:35	*40m*	20:16	*11h 52m*	*8h 03m*				So, 19. Mär
Mo, 20. Mär		20:18 – 04:16*	*7h 58m*	AN_+ *bis* AN_-		06:12	16:41	04:19	*40m*	05:00	*38m*	05:38	*35m*	06:13	*12h 09m*	18:23	*35m*	18:58	*38m*	19:37	*40m*	20:18	*11h 48m*	*7h 58m*				Mo, 20. Mär
Di, 21. Mär		20:20 – 04:14*	*7h 54m*	AN_+ *bis* AN_-	●	06:27	18:09	04:16	*40m*	04:57	*38m*	05:36	*35m*	06:11	*12h 13m*	18:24	*35m*	19:00	*38m*	19:39	*41m*	20:20	*11h 44m*	*7h 54m*				Di, 21. Mär
Mi, 22. Mär		20:22 – 04:11*	*7h 49m*	AN_+ *bis* AN_-		06:41	19:34	04:14	*41m*	04:55	*38m*	05:33	*35m*	06:09	*12h 17m*	18:26	*35m*	19:02	*38m*	19:40	*41m*	20:22	*11h 40m*	*7h 49m*				Mi, 22. Mär
Do, 23. Mär		20:59 – 04:08*	*7h 09m*	$M_↘$ *bis* AN_-		06:54	20:59	04:11	*41m*	04:52	*38m*	05:31	*35m*	06:06	*12h 21m*	18:28	*35m*	19:03	*38m*	19:42	*41m*	20:24	*11h 36m*	*7h 44m*				Do, 23. Mär
Fr, 24. Mär		22:22 – 04:06*	*5h 43m*	$M_↘$ *bis* AN_-		07:09	22:22	04:08	*41m*	04:50	*38m*	05:29	*35m*	06:04	*12h 25m*	18:30	*35m*	19:05	*38m*	19:44	*41m*	20:26	*11h 32m*	*7h 40m*				Fr, 24. Mär
Sa, 25. Mär		23:43 – 04:03*	*4h 19m*	$M_↘$ *bis* AN_-		07:27	23:43	04:06	*41m*	04:48	*38m*	05:26	*35m*	06:02	*12h 29m*	18:31	*35m*	19:07	*39m*	19:46	*41m*	20:28	*11h 28m*	*7h 35m*				Sa, 25. Mär
So, 26. Mär	MESZ	02:01* – 05:00*	*2h 59m*	$M_↘$ *bis* AN_-		08:49	00:43	05:03	*41m*	05:45	*39m*	06:24	*35m*	07:00	*12h 33m*	19:33	*35m*	20:08	*39m*	20:48	*42m*	21:30	*11h 24m*	*7h 30m*				So, 26. Mär
Mo, 27. Mär	MESZ	03:09* – 04:58*	*1h 48m*	$M_↘$ *bis* AN_-		09:19	02:01	05:00	*42m*	05:43	*39m*	06:22	*35m*	06:57	*12h 37m*	19:35	*35m*	20:10	*39m*	20:50	*42m*	21:32	*11h 20m*	*7h 25m*				Mo, 27. Mär
Di, 28. Mär	MESZ	04:06* – 04:55*	*49m*	$M_↘$ *bis* AN_-		09:59	03:09	04:58	*42m*	05:40	*39m*	06:20	*35m*	06:55	*12h 41m*	19:36	*35m*	20:12	*39m*	20:51	*42m*	21:34	*11h 16m*	*7h 20m*				Di, 28. Mär
Mi, 29. Mär	MESZ	04:49* – 04:52*	*3m*	$M_↘$ *bis* AN_-	◐	10:51	04:06	04:55	*42m*	05:38	*39m*	06:17	*35m*	06:53	*12h 45m*	19:38	*35m*	20:14	*39m*	20:53	*42m*	21:36	*11h 12m*	*7h 15m*				Mi, 29. Mär
Do, 30. Mär	MESZ	—:— – —:—	–	Mond stört		11:53	04:49	04:52	*42m*	05:35	*39m*	06:15	*35m*	06:51	*12h 48m*	19:40	*35m*	20:15	*39m*	20:55	*43m*	21:39	*11h 08m*	*7h 11m*				Do, 30. Mär
Fr, 31. Mär	MESZ	—:— – —:—	–	Mond stört		13:02	05:21	04:50	*43m*	05:33	*39m*	06:13	*35m*	06:48	*12h 52m*	19:41	*35m*	20:17	*39m*	20:57	*43m*	21:41	*11h 04m*	*7h 06m*				Fr, 31. Mär
Sa, 1. Apr	MESZ	—:— – —:—	–	Mond stört		14:15	05:44	04:47	*43m*	05:30	*39m*	06:10	*35m*	06:46	*12h 56m*	19:43	*36m*	20:19	*40m*	20:59	*43m*	21:43	*11h 00m*	*7h 01m*				Sa, 1. Apr
So, 2. Apr	MESZ	—:— – —:—	–	Mond stört		15:27	06:02	04:44	*43m*	05:28	*40m*	06:08	*35m*	06:44	*13h 00m*	19:45	*36m*	20:21	*40m*	21:01	*44m*	21:45	*10h 57m*	*6h 55m*				So, 2. Apr
Mo, 3. Apr	MESZ	—:— – —:—	–	Mond stört		16:40	06:16	04:41	*44m*	05:25	*40m*	06:05	*36m*	06:42	*13h 04m*	19:46	*36m*	20:22	*40m*	21:03	*44m*	21:47	*10h 53m*	*6h 50m*				Mo, 3. Apr
Di, 4. Apr	MESZ	—:— – —:—	–	Mond stört		17:52	06:28	04:38	*44m*	05:23	*40m*	06:03	*36m*	06:39	*13h 08m*	19:48	*36m*	20:24	*40m*	21:05	*44m*	21:50	*10h 49m*	*6h 45m*				Di, 4. Apr
Mi, 5. Apr	MESZ	—:— – —:—	–	Mond stört		19:06	06:39	04:35	*44m*	05:20	*40m*	06:01	*36m*	06:37	*13h 12m*	19:50	*36m*	20:26	*40m*	21:07	*45m*	21:52	*10h 45m*	*6h 40m*				Mi, 5. Apr
Do, 6. Apr	MESZ	—:— – —:—	–	Mond stört	○	20:21	06:50	04:33	*45m*	05:18	*40m*	05:58	*36m*	06:35	*13h 16m*	19:51	*36m*	20:28	*41m*	21:09	*45m*	21:54	*10h 41m*	*6h 35m*				Do, 6. Apr
Fr, 7. Apr	MESZ	—:— – —:—	–	Mond stört		21:40	07:03	04:30	*45m*	05:15	*41m*	05:56	*36m*	06:33	*13h 20m*	19:53	*36m*	20:29	*41m*	21:11	*45m*	21:57	*10h 37m*	*6h 30m*				Fr, 7. Apr
Sa, 8. Apr	MESZ	21:59 – 23:01	*1h 02m*	AN_+ *bis* $M_↗$		23:01	07:18	04:27	*45m*	05:13	*41m*	05:54	*36m*	06:30	*13h 24m*	19:55	*36m*	20:31	*41m*	21:13	*46m*	21:59	*10h 33m*	*6h 24m*				Sa, 8. Apr
So, 9. Apr	MESZ	22:01 – 00:25*	*2h 23m*	AN_+ *bis* $M_↗$		—:—	07:37	04:24	*46m*	05:10	*41m*	05:52	*36m*	06:28	*13h 27m*	19:56	*36m*	20:33	*41m*	21:15	*46m*	22:01	*10h 29m*	*6h 19m*				So, 9. Apr
Mo, 10. Apr	MESZ	22:04 – 01:46*	*3h 41m*	AN_+ *bis* $M_↗$		00:25	08:04	04:21	*46m*	05:08	*41m*	05:49	*36m*	06:26	*13h 31m*	19:58	*36m*	20:35	*41m*	21:17	*47m*	22:04	*10h 25m*	*6h 13m*				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	22:06 – 02:56*	*4h 50m*	AN$_+$ *bis* M↗		01:46	08:43	04:18	*47m*	05:05	*41m*	05:47	*36m*	06:24	*13h 35m*	19:59	*37m*	20:37	*42m*	21:19	*47m*	22:06	*10h 22m*	*6h 08m*				Di, 11. Apr
Mi, 12. Apr	MESZ	22:09 – 03:51*	*5h 42m*	AN$_+$ *bis* M↗		02:56	09:39	04:15	*47m*	05:02	*42m*	05:45	*37m*	06:22	*13h 39m*	20:01	*37m*	20:38	*42m*	21:21	*48m*	22:09	*10h 18m*	*6h 02m*				Mi, 12. Apr
Do, 13. Apr	MESZ	22:11 – 04:09*	*5h 57m*	AN$_+$ *bis* AN$_-$	◑	03:51	10:52	04:12	*48m*	05:00	*42m*	05:42	*37m*	06:19	*13h 43m*	20:03	*37m*	20:40	*42m*	21:23	*48m*	22:11	*10h 14m*	*5h 57m*				Do, 13. Apr
Fr, 14. Apr	MESZ	22:14 – 04:06*	*5h 51m*	AN$_+$ *bis* AN$_-$		04:30	12:17	04:09	*48m*	04:57	*42m*	05:40	*37m*	06:17	*13h 47m*	20:04	*37m*	20:42	*42m*	21:25	*49m*	22:14	*10h 10m*	*5h 51m*				Fr, 14. Apr
Sa, 15. Apr	MESZ	22:17 – 04:03*	*5h 45m*	AN$_+$ *bis* AN$_-$		04:57	13:47	04:06	*49m*	04:55	*42m*	05:38	*37m*	06:15	*13h 50m*	20:06	*37m*	20:44	*43m*	21:27	*49m*	22:17	*10h 06m*	*5h 45m*				Sa, 15. Apr
So, 16. Apr	MESZ	22:19 – 03:59*	*5h 40m*	AN$_+$ *bis* AN$_-$		05:17	15:15	04:03	*49m*	04:52	*43m*	05:35	*37m*	06:13	*13h 54m*	20:08	*37m*	20:46	*43m*	21:29	*50m*	22:19	*10h 03m*	*5h 40m*				So, 16. Apr
Mo, 17. Apr	MESZ	22:22 – 03:56*	*5h 34m*	AN$_+$ *bis* AN$_-$		05:33	16:42	03:59	*50m*	04:50	*43m*	05:33	*37m*	06:11	*13h 58m*	20:09	*38m*	20:47	*43m*	21:31	*50m*	22:22	*9h 59m*	*5h 34m*				Mo, 17. Apr
Di, 18. Apr	MESZ	22:25 – 03:53*	*5h 28m*	AN$_+$ *bis* AN$_-$		05:47	18:07	03:56	*50m*	04:47	*43m*	05:31	*37m*	06:09	*14h 02m*	20:11	*38m*	20:49	*44m*	21:33	*51m*	22:25	*9h 55m*	*5h 28m*				Di, 18. Apr
Mi, 19. Apr	MESZ	22:27 – 03:50*	*5h 22m*	AN$_+$ *bis* AN$_-$		06:00	19:30	03:53	*51m*	04:44	*44m*	05:29	*38m*	06:07	*14h 06m*	20:13	*38m*	20:51	*44m*	21:36	*51m*	22:27	*9h 51m*	*5h 22m*				Mi, 19. Apr
Do, 20. Apr	MESZ	22:30 – 03:47*	*5h 16m*	AN$_+$ *bis* AN$_-$	●	06:14	20:54	03:50	*51m*	04:42	*44m*	05:26	*38m*	06:05	*14h 09m*	20:14	*38m*	20:53	*44m*	21:38	*52m*	22:30	*9h 48m*	*5h 16m*				Do, 20. Apr
Fr, 21. Apr	MESZ	22:33 – 03:44*	*5h 10m*	AN$_+$ *bis* AN$_-$		06:30	22:17	03:47	*52m*	04:39	*44m*	05:24	*38m*	06:03	*14h 13m*	20:16	*38m*	20:55	*45m*	21:40	*53m*	22:33	*9h 44m*	*5h 10m*				Fr, 21. Apr
Sa, 22. Apr	MESZ	23:38 – 03:40*	*4h 02m*	M↘ *bis* AN$_-$		06:50	23:38	03:44	*53m*	04:37	*44m*	05:22	*38m*	06:00	*14h 17m*	20:18	*38m*	20:57	*45m*	21:42	*53m*	22:36	*9h 40m*	*5h 04m*				Sa, 22. Apr
So, 23. Apr	MESZ	00:52* – 03:37*	*2h 44m*	M↘ *bis* AN$_-$		07:16	—:—	03:40	*53m*	04:34	*45m*	05:20	*38m*	05:58	*14h 21m*	20:19	*39m*	20:58	*45m*	21:44	*54m*	22:39	*9h 36m*	*4h 58m*				So, 23. Apr
Mo, 24. Apr	MESZ	01:56* – 03:34*	*1h 37m*	M↘ *bis* AN$_-$		07:52	00:52	03:37	*54m*	04:32	*45m*	05:17	*39m*	05:56	*14h 24m*	20:21	*39m*	21:00	*46m*	21:46	*55m*	22:42	*9h 33m*	*4h 51m*				Mo, 24. Apr
Di, 25. Apr	MESZ	02:46* – 03:30*	*44m*	M↘ *bis* AN$_-$		08:39	01:56	03:34	*55m*	04:29	*46m*	05:15	*39m*	05:54	*14h 28m*	20:23	*39m*	21:02	*46m*	21:49	*56m*	22:45	*9h 29m*	*4h 45m*				Di, 25. Apr
Mi, 26. Apr	MESZ	03:22* – 03:27*	*5m*	M↘ *bis* AN$_-$		09:38	02:46	03:30	*56m*	04:27	*46m*	05:13	*39m*	05:52	*14h 31m*	20:24	*39m*	21:04	*46m*	21:51	*57m*	22:48	*9h 26m*	*4h 39m*				Mi, 26. Apr
Do, 27. Apr	MESZ	—:— – —:—	–	Mond stört	◐	10:46	03:22	03:27	*57m*	04:24	*46m*	05:11	*39m*	05:50	*14h 35m*	20:26	*39m*	21:06	*47m*	21:53	*57m*	22:51	*9h 22m*	*4h 32m*				Do, 27. Apr
Fr, 28. Apr	MESZ	—:— – —:—	–	Mond stört		11:57	03:48	03:24	*57m*	04:22	*47m*	05:09	*39m*	05:48	*14h 39m*	20:28	*40m*	21:08	*47m*	21:55	*58m*	22:54	*9h 18m*	*4h 25m*				Fr, 28. Apr
Sa, 29. Apr	MESZ	—:— – —:—	–	Mond stört		13:10	04:08	03:20	*58m*	04:19	*47m*	05:07	*40m*	05:47	*14h 42m*	20:29	*40m*	21:10	*47m*	21:58	*59m*	22:57	*9h 15m*	*4h 19m*				Sa, 29. Apr
So, 30. Apr	MESZ	—:— – —:—	–	Mond stört		14:22	04:23	03:17	*59m*	04:16	*47m*	05:04	*40m*	05:45	*14h 46m*	20:31	*40m*	21:11	*48m*	22:00	*1h 00m*	23:01	*9h 11m*	*4h 12m*				So, 30. Apr
Mo, 1. Mai	MESZ	—:— – —:—	–	Mond stört		15:34	04:35	03:13	*1h 00m*	04:14	*48m*	05:02	*40m*	05:43	*14h 49m*	20:33	*40m*	21:13	*48m*	22:02	*1h 01m*	23:04	*9h 08m*	*4h 05m*				Mo, 1. Mai
Di, 2. Mai	MESZ	—:— – —:—	–	Mond stört		16:47	04:47	03:09	*1h 01m*	04:11	*48m*	05:00	*40m*	05:41	*14h 53m*	20:34	*40m*	21:15	*49m*	22:04	*1h 03m*	23:08	*9h 04m*	*3h 58m*				Di, 2. Mai
Mi, 3. Mai	MESZ	—:— – —:—	–	Mond stört		18:02	04:58	03:06	*1h 03m*	04:09	*49m*	04:58	*40m*	05:39	*14h 56m*	20:36	*41m*	21:17	*49m*	22:07	*1h 04m*	23:11	*9h 01m*	*3h 51m*				Mi, 3. Mai
Do, 4. Mai	MESZ	—:— – —:—	–	Mond stört		19:19	05:10	03:02	*1h 04m*	04:06	*49m*	04:56	*41m*	05:37	*15h 00m*	20:37	*41m*	21:19	*50m*	22:09	*1h 05m*	23:15	*8h 58m*	*3h 43m*				Do, 4. Mai
Fr, 5. Mai	MESZ	—:— – —:—	–	Mond stört	○	20:41	05:24	02:58	*1h 05m*	04:04	*50m*	04:54	*41m*	05:35	*15h 03m*	20:39	*41m*	21:21	*50m*	22:11	*1h 06m*	23:18	*8h 54m*	*3h 36m*				Fr, 5. Mai
Sa, 6. Mai	MESZ	—:— – —:—	–	Mond stört		22:06	05:41	02:55	*1h 06m*	04:01	*50m*	04:52	*41m*	05:34	*15h 06m*	20:41	*41m*	21:23	*51m*	22:14	*1h 08m*	23:22	*8h 51m*	*3h 28m*				Sa, 6. Mai
So, 7. Mai	MESZ	23:26 – 23:31	*5m*	AN$_+$ *bis* M↗		23:31	06:06	02:51	*1h 08m*	03:59	*51m*	04:50	*41m*	05:32	*15h 10m*	20:42	*42m*	21:24	*51m*	22:16	*1h 09m*	23:26	*8h 47m*	*3h 21m*				So, 7. Mai
Mo, 8. Mai	MESZ	23:30 – 00:48*	*1h 17m*	AN$_+$ *bis* M↗		—:—	06:41	02:47	*1h 09m*	03:57	*51m*	04:48	*42m*	05:30	*15h 13m*	20:44	*42m*	21:26	*52m*	22:18	*1h 11m*	23:30	*8h 44m*	*3h 13m*				Mo, 8. Mai
Di, 9. Mai	MESZ	23:34 – 01:49*	*2h 15m*	AN$_+$ *bis* M↗		00:48	07:32	02:43	*1h 11m*	03:54	*52m*	04:46	*42m*	05:29	*15h 16m*	20:45	*42m*	21:28	*52m*	22:21	*1h 13m*	23:34	*8h 41m*	*3h 04m*				Di, 9. Mai
Mi, 10. Mai	MESZ	23:38 – 02:32*	*2h 54m*	AN$_+$ *bis* M↗		01:49	08:41	02:39	*1h 13m*	03:52	*52m*	04:44	*42m*	05:27	*15h 20m*	20:47	*42m*	21:30	*53m*	22:23	*1h 14m*	23:38	*8h 38m*	*2h 56m*				Mi, 10. Mai
Do, 11. Mai	MESZ	23:42 – 02:30*	*2h 47m*	AN$_+$ *bis* AN$_-$		02:32	10:04	02:34	*1h 14m*	03:49	*53m*	04:42	*42m*	05:25	*15h 23m*	20:49	*43m*	21:32	*53m*	22:25	*1h 16m*	23:42	*8h 35m*	*2h 47m*				Do, 11. Mai
Fr, 12. Mai	MESZ	23:47 – 02:26*	*2h 38m*	AN$_+$ *bis* AN$_-$	◑	03:03	11:32	02:30	*1h 16m*	03:47	*53m*	04:41	*43m*	05:24	*15h 26m*	20:50	*43m*	21:33	*54m*	22:28	*1h 19m*	23:47	*8h 32m*	*2h 38m*				Fr, 12. Mai
Sa, 13. Mai	MESZ	23:51 – 02:21*	*2h 29m*	AN$_+$ *bis* AN$_-$		03:24	13:00	02:26	*1h 19m*	03:45	*54m*	04:39	*43m*	05:22	*15h 29m*	20:52	*43m*	21:35	*54m*	22:30	*1h 21m*	23:51	*8h 28m*	*2h 29m*				Sa, 13. Mai
So, 14. Mai	MESZ	23:56 – 02:16*	*2h 19m*	AN$_+$ *bis* AN$_-$		03:41	14:26	02:21	*1h 21m*	03:42	*54m*	04:37	*43m*	05:21	*15h 32m*	20:53	*43m*	21:37	*55m*	22:32	*1h 23m*	23:56	*8h 25m*	*2h 19m*				So, 14. Mai
Mo, 15. Mai	MESZ	00:01* – 02:11*	*2h 09m*	AN$_+$ *bis* AN$_-$		03:54	15:49	02:16	*1h 23m*	03:40	*55m*	04:35	*43m*	05:19	*15h 35m*	20:55	*44m*	21:39	*55m*	22:35	*1h 26m*	00:01*	*8h 22m*	*2h 09m*				Mo, 15. Mai
Di, 16. Mai	MESZ	00:07* – 02:05*	*1h 58m*	AN$_+$ *bis* AN$_-$		04:07	17:10	02:11	*1h 26m*	03:38	*55m*	04:33	*44m*	05:18	*15h 38m*	20:56	*44m*	21:41	*56m*	22:37	*1h 29m*	00:07*	*8h 20m*	*1h 58m*				Di, 16. Mai
Mi, 17. Mai	MESZ	00:13* – 02:00*	*1h 46m*	AN$_+$ *bis* AN$_-$		04:20	18:32	02:05	*1h 29m*	03:35	*56m*	04:32	*44m*	05:16	*15h 41m*	20:58	*44m*	21:42	*57m*	22:39	*1h 33m*	00:13*	*8h 17m*	*1h 46m*				Mi, 17. Mai
Do, 18. Mai	MESZ	00:19* – 01:53*	*1h 33m*	AN$_+$ *bis* AN$_-$		04:35	19:54	02:00	*1h 33m*	03:33	*57m*	04:30	*44m*	05:15	*15h 44m*	20:59	*44m*	21:44	*57m*	22:42	*1h 37m*	00:19*	*8h 14m*	*1h 33m*				Do, 18. Mai
Fr, 19. Mai	MESZ	00:27* – 01:46*	*1h 19m*	AN$_+$ *bis* AN$_-$	●	04:53	21:15	01:53	*1h 37m*	03:31	*57m*	04:28	*44m*	05:13	*15h 47m*	21:00	*45m*	21:46	*58m*	22:44	*1h 42m*	00:27*	*8h 11m*	*1h 19m*				Fr, 19. Mai
Sa, 20. Mai	MESZ	00:36* – 01:37*	*1h 01m*	AN$_+$ *bis* AN$_-$		05:16	22:33	01:46	*1h 42m*	03:29	*58m*	04:27	*45m*	05:12	*15h 49m*	21:02	*45m*	21:47	*58m*	22:46	*1h 49m*	00:36*	*8h 08m*	*1h 01m*				Sa, 20. Mai
So, 21. Mai	MESZ	00:48* – 01:25*	*36m*	AN$_+$ *bis* AN$_-$		05:47	23:42	01:37	*1h 49m*	03:26	*58m*	04:25	*45m*	05:11	*15h 52m*	21:03	*45m*	21:49	*59m*	22:49	*1h 59m*	00:48*	*8h 06m*	*36m*				So, 21. Mai
Mo, 22. Mai	MESZ			Astr. MD		06:30	—:—	01:25	*1h 59m*	03:24	*59m*	04:24	*45m*	05:10	*15h 55m*	21:05	*45m*	21:51	*1h 00m*	22:51		—:—	*8h 03m*		00:38* – 03:22*	*2h 44m*	M↘ *bis* ND$_-$	Mo, 22. Mai
Di, 23. Mai	MESZ			Astr. MD		07:25	00:38	—:—		03:22	*1h 00m*	04:22	*45m*	05:08	*15h 57m*	21:06	*46m*	21:52	*1h 00m*	22:53		—:—	*8h 01m*		01:20* – 03:20*	*2h 00m*	M↘ *bis* ND$_-$	Di, 23. Mai
Mi, 24. Mai	MESZ			Astr. MD		08:30	01:20	—:—		03:20	*1h 00m*	04:21	*46m*	05:07	*16h 00m*	21:07	*46m*	21:54	*1h 01m*	22:55		—:—	*7h 58m*		01:50* – 03:18*	*1h 28m*	M↘ *bis* ND$_-$	Mi, 24. Mai
Do, 25. Mai	MESZ			Astr. MD		09:40	01:50	—:—		03:18	*1h 01m*	04:20	*46m*	05:06	*16h 02m*	21:09	*46m*	21:55	*1h 02m*	22:57		—:—	*7h 56m*		02:12* – 03:16*	*1h 04m*	M↘ *bis* ND$_-$	Do, 25. Mai
Fr, 26. Mai	MESZ			Astr. MD		10:53	02:12	—:—		03:16	*1h 02m*	04:18	*46m*	05:05	*16h 05m*	21:10	*47m*	21:57	*1h 02m*	23:00		—:—	*7h 53m*		02:29* – 03:14*	*45m*	M↘ *bis* ND$_-$	Fr, 26. Mai
Sa, 27. Mai	MESZ			Astr. MD	◐	12:05	02:29	—:—		03:14	*1h 02m*	04:17	*46m*	05:04	*16h 07m*	21:11	*47m*	21:58	*1h 03m*	23:02		—:—	*7h 51m*		02:42* – 03:12*	*30m*	M↘ *bis* ND$_-$	Sa, 27. Mai
So, 28. Mai	MESZ			Astr. MD		13:16	02:42	—:—		03:12	*1h 03m*	04:16	*47m*	05:03	*16h 09m*	21:12	*47m*	22:00	*1h 03m*	23:04		—:—	*7h 49m*		02:54* – 03:10*	*16m*	M↘ *bis* ND$_-$	So, 28. Mai
Mo, 29. Mai	MESZ			Astr. MD		14:27	02:54	—:—		03:10	*1h 03m*	04:14	*47m*	05:02	*16h 11m*	21:14	*47m*	22:01	*1h 04m*	23:06		—:—	*7h 47m*		03:05* – 03:09*	*4m*	M↘ *bis* ND$_-$	Mo, 29. Mai
Di, 30. Mai	MESZ			Astr. MD		15:40	03:05	—:—		03:09	*1h 04m*	04:13	*47m*	05:01	*16h 13m*	21:15	*47m*	22:03	*1h 05m*	23:08		—:—	*7h 45m*		—:— – —:—	–	Mond stört	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		16:56	03:16	—:—		03:07	*1h 05m*	04:12	*47m*	05:00	*16h 15m*	21:16	*48m*	22:04	*1h 05m*	23:10		—:—	*7h 43m*		—:— – —:—	–	Mond stört	Mi, 31. Mai
Do, 1. Jun	MESZ			Astr. MD		18:15	03:29	—:—		03:05	*1h 05m*	04:11	*48m*	04:59	*16h 17m*	21:17	*48m*	22:05	*1h 06m*	23:12		—:—	*7h 41m*		—:— – —:—	–	Mond stört	Do, 1. Jun
Fr, 2. Jun	MESZ			Astr. MD		19:40	03:44	—:—		03:04	*1h 06m*	04:10	*48m*	04:59	*16h 19m*	21:18	*48m*	22:07	*1h 07m*	23:14		—:—	*7h 39m*		—:— – —:—	–	Mond stört	Fr, 2. Jun
Sa, 3. Jun	MESZ			Astr. MD		21:06	04:06	—:—		03:02	*1h 07m*	04:09	*48m*	04:58	*16h 21m*	21:19	*48m*	22:08	*1h 07m*	23:16		—:—	*7h 37m*		—:— – —:—	–	Mond stört	Sa, 3. Jun
So, 4. Jun	MESZ			Astr. MD	○	22:29	04:36	—:—		03:01	*1h 07m*	04:08	*48m*	04:57	*16h 22m*	21:20	*49m*	22:09	*1h 08m*	23:17		—:—	*7h 36m*		—:— – —:—	–	Mond stört	So, 4. Jun
Mo, 5. Jun	MESZ			Astr. MD		23:39	05:21	—:—		02:59	*1h 08m*	04:07	*49m*	04:56	*16h 24m*	21:21	*49m*	22:10	*1h 08m*	23:19		—:—	*7h 34m*		23:19 – 23:39	*19m*	ND_+ *bis* $M_↗$	Mo, 5. Jun
Di, 6. Jun	MESZ			Astr. MD		—:—	06:26	—:—		02:58	*1h 08m*	04:07	*49m*	04:56	*16h 26m*	21:22	*49m*	22:11	*1h 09m*	23:21		—:—	*7h 33m*		23:21 – 00:30*	*1h 09m*	ND_+ *bis* $M_↗$	Di, 6. Jun
Mi, 7. Jun	MESZ			Astr. MD		00:30	07:47	—:—		02:56	*1h 09m*	04:06	*49m*	04:55	*16h 27m*	21:23	*49m*	22:12	*1h 09m*	23:22		—:—	*7h 31m*		23:22 – 01:05*	*1h 42m*	ND_+ *bis* $M_↗$	Mi, 7. Jun
Do, 8. Jun	MESZ			Astr. MD		01:05	09:16	—:—		02:55	*1h 09m*	04:05	*49m*	04:55	*16h 28m*	21:24	*49m*	22:13	*1h 10m*	23:24		—:—	*7h 30m*		23:24 – 01:30*	*2h 05m*	ND_+ *bis* $M_↗$	Do, 8. Jun
Fr, 9. Jun	MESZ			Astr. MD		01:30	10:47	—:—		02:54	*1h 10m*	04:05	*49m*	04:54	*16h 30m*	21:24	*49m*	22:14	*1h 10m*	23:25		—:—	*7h 29m*		23:25 – 01:48*	*2h 22m*	ND_+ *bis* $M_↗$	Fr, 9. Jun
Sa, 10. Jun	MESZ			Astr. MD	◑	01:48	12:14	—:—		02:53	*1h 10m*	04:04	*49m*	04:54	*16h 31m*	21:25	*50m*	22:15	*1h 11m*	23:27		—:—	*7h 28m*		23:27 – 02:02*	*2h 35m*	ND_+ *bis* $M_↗$	Sa, 10. Jun
So, 11. Jun	MESZ			Astr. MD		02:02	13:37	—:—		02:52	*1h 11m*	04:04	*50m*	04:54	*16h 32m*	21:26	*50m*	22:16	*1h 11m*	23:28		—:—	*7h 27m*		23:28 – 02:15*	*2h 47m*	ND_+ *bis* $M_↗$	So, 11. Jun
Mo, 12. Jun	MESZ			Astr. MD		02:15	14:58	—:—		02:51	*1h 11m*	04:03	*50m*	04:53	*16h 33m*	21:27	*50m*	22:17	*1h 12m*	23:29		—:—	*7h 26m*		23:29 – 02:28*	*2h 58m*	ND_+ *bis* $M_↗$	Mo, 12. Jun
Di, 13. Jun	MESZ			Astr. MD		02:28	16:18	—:—		02:51	*1h 12m*	04:03	*50m*	04:53	*16h 34m*	21:27	*50m*	22:18	*1h 12m*	23:30		—:—	*7h 25m*		23:30 – 02:42*	*3h 11m*	ND_+ *bis* $M_↗$	Di, 13. Jun
Mi, 14. Jun	MESZ			Astr. MD		02:42	17:39	—:—		02:50	*1h 12m*	04:03	*50m*	04:53	*16h 34m*	21:28	*50m*	22:18	*1h 12m*	23:31		—:—	*7h 25m*		23:31 – 02:49*	*3h 18m*	ND_+ *bis* ND_-	Mi, 14. Jun
Do, 15. Jun	MESZ			Astr. MD		02:58	18:59	—:—		02:49	*1h 12m*	04:02	*50m*	04:53	*16h 35m*	21:28	*50m*	22:19	*1h 13m*	23:32		—:—	*7h 24m*		23:32 – 02:49*	*3h 16m*	ND_+ *bis* ND_-	Do, 15. Jun
Fr, 16. Jun	MESZ			Astr. MD		03:19	20:17	—:—		02:49	*1h 13m*	04:02	*50m*	04:53	*16h 36m*	21:29	*50m*	22:19	*1h 13m*	23:33		—:—	*7h 23m*		23:33 – 02:49*	*3h 15m*	ND_+ *bis* ND_-	Fr, 16. Jun
Sa, 17. Jun	MESZ			Astr. MD		03:47	21:29	—:—		02:49	*1h 13m*	04:02	*50m*	04:53	*16h 36m*	21:29	*50m*	22:20	*1h 13m*	23:34		—:—	*7h 23m*		23:34 – 02:48*	*3h 14m*	ND_+ *bis* ND_-	Sa, 17. Jun
So, 18. Jun	MESZ			Astr. MD	●	04:25	22:30	—:—		02:48	*1h 13m*	04:02	*50m*	04:53	*16h 36m*	21:30	*50m*	22:20	*1h 13m*	23:34		—:—	*7h 23m*		23:34 – 02:48*	*3h 14m*	ND_+ *bis* ND_-	So, 18. Jun
Mo, 19. Jun	MESZ			Astr. MD		05:15	23:17	—:—		02:48	*1h 13m*	04:02	*50m*	04:53	*16h 37m*	21:30	*50m*	22:21	*1h 13m*	23:35		—:—	*7h 22m*		23:35 – 02:48*	*3h 13m*	ND_+ *bis* ND_-	Mo, 19. Jun
Di, 20. Jun	MESZ			Astr. MD		06:17	23:51	—:—		02:48	*1h 13m*	04:02	*50m*	04:53	*16h 37m*	21:30	*50m*	22:21	*1h 13m*	23:35		—:—	*7h 22m*		23:51 – 02:48*	*2h 57m*	$M_↘$ *bis* ND_-	Di, 20. Jun
Mi, 21. Jun	MESZ			Astr. MD		07:26	—:—	—:—		02:48	*1h 13m*	04:02	*50m*	04:53	*16h 37m*	21:30	*50m*	22:21	*1h 13m*	23:35		—:—	*7h 22m*		00:15* – 02:49*	*2h 33m*	$M_↘$ *bis* ND_-	Mi, 21. Jun
Do, 22. Jun	MESZ			Astr. MD		08:38	00:15	—:—		02:49	*1h 13m*	04:02	*50m*	04:53	*16h 37m*	21:31	*50m*	22:21	*1h 13m*	23:35		—:—	*7h 22m*		00:34* – 02:49*	*2h 15m*	$M_↘$ *bis* ND_-	Do, 22. Jun
Fr, 23. Jun	MESZ			Astr. MD		09:50	00:34	—:—		02:49	*1h 13m*	04:03	*50m*	04:54	*16h 37m*	21:31	*50m*	22:22	*1h 13m*	23:35		—:—	*7h 23m*		00:48* – 02:49*	*2h 01m*	$M_↘$ *bis* ND_-	Fr, 23. Jun
Sa, 24. Jun	MESZ			Astr. MD		11:01	00:48	—:—		02:49	*1h 13m*	04:03	*50m*	04:54	*16h 37m*	21:31	*50m*	22:22	*1h 13m*	23:35		—:—	*7h 23m*		01:00* – 02:50*	*1h 49m*	$M_↘$ *bis* ND_-	Sa, 24. Jun
So, 25. Jun	MESZ			Astr. MD		12:11	01:00	—:—		02:50	*1h 13m*	04:03	*50m*	04:54	*16h 36m*	21:31	*50m*	22:22	*1h 13m*	23:35		—:—	*7h 23m*		01:11* – 02:50*	*1h 39m*	$M_↘$ *bis* ND_-	So, 25. Jun
Mo, 26. Jun	MESZ			Astr. MD	◐	13:22	01:11	—:—		02:50	*1h 13m*	04:04	*50m*	04:55	*16h 36m*	21:31	*50m*	22:21	*1h 13m*	23:35		—:—	*7h 24m*		01:22* – 02:51*	*1h 29m*	$M_↘$ *bis* ND_-	Mo, 26. Jun
Di, 27. Jun	MESZ			Astr. MD		14:35	01:22	—:—		02:51	*1h 13m*	04:04	*50m*	04:55	*16h 35m*	21:31	*50m*	22:21	*1h 13m*	23:34		—:—	*7h 24m*		01:34* – 02:52*	*1h 18m*	$M_↘$ *bis* ND_-	Di, 27. Jun
Mi, 28. Jun	MESZ			Astr. MD		15:51	01:34	—:—		02:52	*1h 13m*	04:05	*50m*	04:56	*16h 35m*	21:31	*50m*	22:21	*1h 12m*	23:34		—:—	*7h 25m*		01:48* – 02:53*	*1h 05m*	$M_↘$ *bis* ND_-	Mi, 28. Jun
Do, 29. Jun	MESZ			Astr. MD		17:11	01:48	—:—		02:53	*1h 12m*	04:06	*50m*	04:56	*16h 34m*	21:31	*50m*	22:21	*1h 12m*	23:33		—:—	*7h 26m*		02:06* – 02:54*	*48m*	$M_↘$ *bis* ND_-	Do, 29. Jun
Fr, 30. Jun	MESZ			Astr. MD		18:36	02:06	—:—		02:54	*1h 12m*	04:06	*50m*	04:57	*16h 33m*	21:30	*50m*	22:20	*1h 11m*	23:32		—:—	*7h 27m*		02:31* – 02:55*	*24m*	$M_↘$ *bis* ND_-	Fr, 30. Jun
Sa, 1. Jul	MESZ			Astr. MD		20:02	02:31	—:—		02:55	*1h 11m*	04:07	*50m*	04:57	*16h 32m*	21:30	*50m*	22:20	*1h 11m*	23:32		—:—	*7h 28m*		—:— – —:—	–	Mond stört	Sa, 1. Jul
So, 2. Jul	MESZ			Astr. MD		21:19	03:09	—:—		02:56	*1h 11m*	04:08	*50m*	04:58	*16h 31m*	21:30	*49m*	22:20	*1h 11m*	23:31		—:—	*7h 29m*		—:— – —:—	–	Mond stört	So, 2. Jul
Mo, 3. Jul	MESZ			Astr. MD	○	22:20	04:05	—:—		02:58	*1h 11m*	04:09	*49m*	04:59	*16h 30m*	21:29	*49m*	22:19	*1h 10m*	23:30		—:—	*7h 30m*		—:— – —:—	–	Mond stört	Mo, 3. Jul
Di, 4. Jul	MESZ			Astr. MD		23:03	05:21	—:—		02:59	*1h 10m*	04:10	*49m*	05:00	*16h 29m*	21:29	*49m*	22:18	*1h 10m*	23:29		—:—	*7h 31m*		—:— – —:—	–	Mond stört	Di, 4. Jul
Mi, 5. Jul	MESZ			Astr. MD		23:32	06:51	—:—		03:01	*1h 10m*	04:11	*49m*	05:00	*16h 27m*	21:28	*49m*	22:18	*1h 09m*	23:27		—:—	*7h 32m*		23:27 – 23:32	*4m*	ND_+ *bis* $M_↗$	Mi, 5. Jul
Do, 6. Jul	MESZ			Astr. MD		23:53	08:24	—:—		03:02	*1h 09m*	04:12	*49m*	05:01	*16h 26m*	21:28	*49m*	22:17	*1h 09m*	23:26		—:—	*7h 34m*		23:26 – 23:53	*26m*	ND_+ *bis* $M_↗$	Do, 6. Jul
Fr, 7. Jul	MESZ			Astr. MD		—:—	09:56	—:—		03:04	*1h 09m*	04:13	*49m*	05:02	*16h 25m*	21:27	*49m*	22:16	*1h 08m*	23:25		—:—	*7h 35m*		23:25 – 00:09*	*43m*	ND_+ *bis* $M_↗$	Fr, 7. Jul
Sa, 8. Jul	MESZ			Astr. MD		00:09	11:23	—:—		03:05	*1h 08m*	04:14	*49m*	05:03	*16h 23m*	21:27	*48m*	22:15	*1h 07m*	23:23		—:—	*7h 37m*		23:23 – 00:22*	*58m*	ND_+ *bis* $M_↗$	Sa, 8. Jul
So, 9. Jul	MESZ			Astr. MD		00:22	12:46	—:—		03:07	*1h 07m*	04:15	*48m*	05:04	*16h 21m*	21:26	*48m*	22:15	*1h 07m*	23:22		—:—	*7h 39m*		23:22 – 00:35*	*1h 13m*	ND_+ *bis* $M_↗$	So, 9. Jul
Mo, 10. Jul	MESZ			Astr. MD	◑	00:35	14:08	—:—		03:09	*1h 07m*	04:16	*48m*	05:05	*16h 20m*	21:25	*48m*	22:14	*1h 06m*	23:20		—:—	*7h 40m*		23:20 – 00:49*	*1h 28m*	ND_+ *bis* $M_↗$	Mo, 10. Jul
Di, 11. Jul	MESZ			Astr. MD		00:49	15:28	—:—		03:11	*1h 06m*	04:18	*48m*	05:06	*16h 18m*	21:24	*48m*	22:13	*1h 06m*	23:19		—:—	*7h 42m*		23:19 – 01:04*	*1h 45m*	ND_+ *bis* $M_↗$	Di, 11. Jul
Mi, 12. Jul	MESZ			Astr. MD		01:04	16:48	—:—		03:13	*1h 06m*	04:19	*48m*	05:07	*16h 16m*	21:24	*48m*	22:12	*1h 05m*	23:17		—:—	*7h 44m*		23:17 – 01:23*	*2h 06m*	ND_+ *bis* $M_↗$	Mi, 12. Jul
Do, 13. Jul	MESZ			Astr. MD		01:23	18:06	—:—		03:15	*1h 05m*	04:20	*48m*	05:08	*16h 14m*	21:23	*47m*	22:11	*1h 04m*	23:15		—:—	*7h 46m*		23:15 – 01:48*	*2h 33m*	ND_+ *bis* $M_↗$	Do, 13. Jul
Fr, 14. Jul	MESZ			Astr. MD		01:48	19:20	—:—		03:17	*1h 04m*	04:21	*47m*	05:09	*16h 12m*	21:22	*47m*	22:09	*1h 04m*	23:14		—:—	*7h 48m*		23:14 – 02:23*	*3h 09m*	ND_+ *bis* $M_↗$	Fr, 14. Jul
Sa, 15. Jul	MESZ			Astr. MD		02:23	20:24	—:—		03:19	*1h 04m*	04:23	*47m*	05:10	*16h 10m*	21:21	*47m*	22:08	*1h 03m*	23:12		—:—	*7h 50m*		23:12 – 03:09*	*3h 57m*	ND_+ *bis* $M_↗$	Sa, 15. Jul
So, 16. Jul	MESZ			Astr. MD		03:09	21:14	—:—		03:21	*1h 03m*	04:24	*47m*	05:12	*16h 08m*	21:20	*47m*	22:07	*1h 02m*	23:10		—:—	*7h 53m*		23:10 – 03:23*	*4h 12m*	ND_+ *bis* ND_-	So, 16. Jul
Mo, 17. Jul	MESZ			Astr. MD	●	04:07	21:52	—:—		03:23	*1h 02m*	04:26	*47m*	05:13	*16h 05m*	21:19	*46m*	22:06	*1h 02m*	23:08		—:—	*7h 55m*		23:08 – 03:25*	*4h 16m*	ND_+ *bis* ND_-	Mo, 17. Jul
Di, 18. Jul	MESZ			Astr. MD		05:14	22:19	—:—		03:25	*1h 02m*	04:27	*46m*	05:14	*16h 03m*	21:18	*46m*	22:04	*1h 01m*	23:06		—:—	*7h 57m*		23:06 – 03:27*	*4h 21m*	ND_+ *bis* ND_-	Di, 18. Jul
Mi, 19. Jul	MESZ			Astr. MD		06:26	22:39	—:—		03:27	*1h 01m*	04:29	*46m*	05:15	*16h 01m*	21:17	*46m*	22:03	*1h 01m*	23:04		—:—	*8h 00m*		23:04 – 03:29*	*4h 25m*	ND_+ *bis* ND_-	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			Astr. MD		07:38	22:55	—:—		03:29	*1h 01m*	04:30	*46m*	05:17	*15h 58m*	21:15	*46m*	22:01	*1h 00m*	23:02		—:—	*8h 02m*		23:02 – 03:31*	*4h 29m*	ND_+ *bis* ND_-	Do, 20. Jul
Fr, 21. Jul	MESZ	01:07* – 01:26*	*18m*	AN_+ *bis* AN_-		08:49	23:07	—:—		03:31	*1h 00m*	04:32	*46m*	05:18	*15h 56m*	21:14	*45m*	22:00	*59m*	23:00	*2h 07m*	01:07*	*8h 05m*	*18m*				Fr, 21. Jul
Sa, 22. Jul	MESZ	00:51* – 01:43*	*52m*	AN_+ *bis* AN_-		09:59	23:18	01:26	*2h 07m*	03:34	*59m*	04:33	*45m*	05:19	*15h 53m*	21:13	*45m*	21:58	*59m*	22:58	*1h 53m*	00:51*	*8h 07m*	*52m*				Sa, 22. Jul
So, 23. Jul	MESZ	00:41* – 01:53*	*1h 11m*	AN_+ *bis* AN_-		11:09	23:29	01:43	*1h 53m*	03:36	*59m*	04:35	*45m*	05:21	*15h 50m*	21:12	*45m*	21:57	*58m*	22:55	*1h 45m*	00:41*	*8h 10m*	*1h 11m*				So, 23. Jul
Mo, 24. Jul	MESZ	00:33* – 02:00*	*1h 27m*	AN_+ *bis* AN_-		12:20	23:40	01:53	*1h 45m*	03:38	*58m*	04:37	*45m*	05:22	*15h 48m*	21:10	*45m*	21:55	*57m*	22:53	*1h 39m*	00:33*	*8h 13m*	*1h 27m*				Mo, 24. Jul
Di, 25. Jul	MESZ	00:26* – 02:07*	*1h 40m*	AN_+ *bis* AN_-		13:33	23:52	02:00	*1h 39m*	03:40	*57m*	04:38	*45m*	05:23	*15h 45m*	21:09	*44m*	21:54	*57m*	22:51	*1h 35m*	00:26*	*8h 15m*	*1h 40m*				Di, 25. Jul
Mi, 26. Jul	MESZ	00:20* – 02:13*	*1h 53m*	AN_+ *bis* AN_-	◐	14:49	—:—	02:07	*1h 35m*	03:43	*57m*	04:40	*44m*	05:25	*15h 42m*	21:07	*44m*	21:52	*56m*	22:49	*1h 31m*	00:20*	*8h 18m*	*1h 53m*				Mi, 26. Jul
Do, 27. Jul	MESZ	00:29* – 02:19*	*1h 50m*	$M_↘$ *bis* AN_-		16:10	00:08	02:13	*1h 31m*	03:45	*56m*	04:42	*44m*	05:26	*15h 39m*	21:06	*44m*	21:50	*56m*	22:46	*1h 28m*	00:15*	*8h 21m*	*2h 04m*				Do, 27. Jul
Fr, 28. Jul	MESZ	00:59* – 02:24*	*1h 25m*	$M_↘$ *bis* AN_-		17:34	00:29	02:19	*1h 28m*	03:47	*56m*	04:43	*44m*	05:28	*15h 36m*	21:05	*44m*	21:49	*55m*	22:44	*1h 25m*	00:09*	*8h 24m*	*2h 14m*				Fr, 28. Jul
Sa, 29. Jul	MESZ	01:45* – 02:29*	*44m*	$M_↘$ *bis* AN_-		18:55	00:59	02:24	*1h 25m*	03:49	*55m*	04:45	*44m*	05:29	*15h 34m*	21:03	*43m*	21:47	*55m*	22:42	*1h 22m*	00:04*	*8h 27m*	*2h 24m*				Sa, 29. Jul
So, 30. Jul	MESZ	—:— – —:—	–	Mond stört		20:03	01:45	02:29	*1h 22m*	03:52	*55m*	04:47	*43m*	05:31	*15h 31m*	21:02	*43m*	21:45	*54m*	22:39	*1h 20m*	00:00*	*8h 30m*	*2h 34m*				So, 30. Jul
Mo, 31. Jul	MESZ	—:— – —:—	–	Mond stört		20:55	02:51	02:34	*1h 20m*	03:54	*54m*	04:48	*43m*	05:32	*15h 27m*	21:00	*43m*	21:43	*53m*	22:37	*1h 17m*	23:55	*8h 33m*	*2h 43m*				Mo, 31. Jul
Di, 1. Aug	MESZ	—:— – —:—	–	Mond stört	○	21:30	04:15	02:38	*1h 18m*	03:56	*53m*	04:50	*43m*	05:33	*15h 24m*	20:58	*42m*	21:41	*53m*	22:35	*1h 15m*	23:51	*8h 36m*	*2h 51m*				Di, 1. Aug
Mi, 2. Aug	MESZ	—:— – —:—	–	Mond stört		21:55	05:50	02:43	*1h 15m*	03:59	*53m*	04:52	*43m*	05:35	*15h 21m*	20:57	*42m*	21:39	*52m*	22:32	*1h 14m*	23:46	*8h 39m*	*3h 00m*				Mi, 2. Aug
Do, 3. Aug	MESZ	—:— – —:—	–	Mond stört		22:13	07:26	02:47	*1h 14m*	04:01	*52m*	04:54	*42m*	05:36	*15h 18m*	20:55	*42m*	21:38	*52m*	22:30	*1h 12m*	23:42	*8h 42m*	*3h 08m*				Do, 3. Aug
Fr, 4. Aug	MESZ	—:— – —:—	–	Mond stört		22:28	08:58	02:51	*1h 12m*	04:03	*52m*	04:55	*42m*	05:38	*15h 15m*	20:53	*42m*	21:36	*51m*	22:27	*1h 10m*	23:38	*8h 46m*	*3h 16m*				Fr, 4. Aug
Sa, 5. Aug	MESZ	—:— – —:—	–	Mond stört		22:41	10:26	02:55	*1h 10m*	04:05	*51m*	04:57	*42m*	05:39	*15h 12m*	20:52	*41m*	21:34	*51m*	22:25	*1h 09m*	23:34	*8h 49m*	*3h 24m*				Sa, 5. Aug
So, 6. Aug	MESZ	—:— – —:—	–	Mond stört		22:55	11:51	02:58	*1h 09m*	04:08	*51m*	04:59	*42m*	05:41	*15h 08m*	20:50	*41m*	21:32	*50m*	22:22	*1h 07m*	23:30	*8h 52m*	*3h 31m*				So, 6. Aug
Mo, 7. Aug	MESZ	—:— – —:—	–	Mond stört		23:09	13:14	03:02	*1h 07m*	04:10	*50m*	05:01	*41m*	05:43	*15h 05m*	20:48	*41m*	21:30	*50m*	22:20	*1h 06m*	23:26	*8h 56m*	*3h 39m*				Mo, 7. Aug
Di, 8. Aug	MESZ	23:23 – 23:27	*4m*	AN_+ *bis* $M_↗$	◑	23:27	14:36	03:06	*1h 06m*	04:12	*50m*	05:03	*41m*	05:44	*15h 02m*	20:46	*41m*	21:28	*49m*	22:18	*1h 05m*	23:23	*8h 59m*	*3h 46m*				Di, 8. Aug
Mi, 9. Aug	MESZ	23:19 – 23:51	*31m*	AN_+ *bis* $M_↗$		23:51	15:57	03:09	*1h 05m*	04:14	*49m*	05:04	*41m*	05:46	*14h 58m*	20:44	*41m*	21:26	*49m*	22:15	*1h 03m*	23:19	*9h 02m*	*3h 53m*				Mi, 9. Aug
Do, 10. Aug	MESZ	23:15 – 00:22*	*1h 06m*	AN_+ *bis* $M_↗$		—:—	17:12	03:13	*1h 03m*	04:17	*49m*	05:06	*41m*	05:47	*14h 55m*	20:43	*40m*	21:23	*49m*	22:12	*1h 02m*	23:15	*9h 06m*	*4h 00m*				Do, 10. Aug
Fr, 11. Aug	MESZ	23:12 – 01:05*	*1h 52m*	AN_+ *bis* $M_↗$		00:22	18:19	03:16	*1h 02m*	04:19	*49m*	05:08	*40m*	05:49	*14h 51m*	20:41	*40m*	21:21	*48m*	22:10	*1h 01m*	23:12	*9h 09m*	*4h 07m*				Fr, 11. Aug
Sa, 12. Aug	MESZ	23:08 – 01:59*	*2h 51m*	AN_+ *bis* $M_↗$		01:05	19:14	03:19	*1h 01m*	04:21	*48m*	05:10	*40m*	05:50	*14h 48m*	20:39	*40m*	21:19	*48m*	22:07	*1h 00m*	23:08	*9h 13m*	*4h 14m*				Sa, 12. Aug
So, 13. Aug	MESZ	23:04 – 03:04*	*3h 59m*	AN_+ *bis* $M_↗$		01:59	19:55	03:23	*1h 00m*	04:23	*48m*	05:11	*40m*	05:52	*14h 45m*	20:37	*40m*	21:17	*47m*	22:05	*59m*	23:04	*9h 16m*	*4h 21m*				So, 13. Aug
Mo, 14. Aug	MESZ	23:01 – 03:29*	*4h 28m*	AN_+ *bis* AN_-		03:04	20:24	03:26	*59m*	04:25	*47m*	05:13	*40m*	05:53	*14h 41m*	20:35	*39m*	21:15	*47m*	22:02	*58m*	23:01	*9h 20m*	*4h 28m*				Mo, 14. Aug
Di, 15. Aug	MESZ	22:57 – 03:32*	*4h 34m*	AN_+ *bis* AN_-		04:15	20:46	03:29	*58m*	04:28	*47m*	05:15	*40m*	05:55	*14h 37m*	20:33	*39m*	21:13	*47m*	22:00	*57m*	22:57	*9h 23m*	*4h 34m*				Di, 15. Aug
Mi, 16. Aug	MESZ	22:54 – 03:35*	*4h 40m*	AN_+ *bis* AN_-	●	05:27	21:02	03:32	*57m*	04:30	*47m*	05:17	*39m*	05:57	*14h 34m*	20:31	*39m*	21:11	*46m*	21:57	*56m*	22:54	*9h 27m*	*4h 40m*				Mi, 16. Aug
Do, 17. Aug	MESZ	22:51 – 03:38*	*4h 47m*	AN_+ *bis* AN_-		06:39	21:15	03:35	*56m*	04:32	*46m*	05:19	*39m*	05:58	*14h 30m*	20:29	*39m*	21:08	*46m*	21:55	*56m*	22:51	*9h 30m*	*4h 47m*				Do, 17. Aug
Fr, 18. Aug	MESZ	22:47 – 03:41*	*4h 53m*	AN_+ *bis* AN_-		07:50	21:26	03:38	*56m*	04:34	*46m*	05:20	*39m*	06:00	*14h 27m*	20:27	*39m*	21:06	*45m*	21:52	*55m*	22:47	*9h 34m*	*4h 53m*				Fr, 18. Aug
Sa, 19. Aug	MESZ	22:44 – 03:44*	*4h 59m*	AN_+ *bis* AN_-		09:00	21:37	03:41	*55m*	04:36	*45m*	05:22	*39m*	06:01	*14h 23m*	20:25	*38m*	21:04	*45m*	21:50	*54m*	22:44	*9h 37m*	*4h 59m*				Sa, 19. Aug
So, 20. Aug	MESZ	22:41 – 03:47*	*5h 05m*	AN_+ *bis* AN_-		10:10	21:47	03:44	*54m*	04:38	*45m*	05:24	*39m*	06:03	*14h 20m*	20:23	*38m*	21:02	*45m*	21:47	*53m*	22:41	*9h 41m*	*5h 05m*				So, 20. Aug
Mo, 21. Aug	MESZ	22:37 – 03:49*	*5h 11m*	AN_+ *bis* AN_-		11:21	21:59	03:47	*53m*	04:40	*45m*	05:26	*38m*	06:05	*14h 16m*	20:21	*38m*	20:59	*44m*	21:44	*53m*	22:37	*9h 45m*	*5h 11m*				Mo, 21. Aug
Di, 22. Aug	MESZ	22:34 – 03:52*	*5h 17m*	AN_+ *bis* AN_-		12:35	22:12	03:49	*53m*	04:42	*44m*	05:27	*38m*	06:06	*14h 12m*	20:19	*38m*	20:57	*44m*	21:42	*52m*	22:34	*9h 48m*	*5h 17m*				Di, 22. Aug
Mi, 23. Aug	MESZ	22:31 – 03:55*	*5h 23m*	AN_+ *bis* AN_-		13:53	22:30	03:52	*52m*	04:45	*44m*	05:29	*38m*	06:08	*14h 09m*	20:17	*38m*	20:55	*44m*	21:39	*51m*	22:31	*9h 52m*	*5h 23m*				Mi, 23. Aug
Do, 24. Aug	MESZ	22:55 – 03:57*	*5h 02m*	$M_↘$ *bis* AN_-	◐	15:14	22:55	03:55	*51m*	04:47	*44m*	05:31	*38m*	06:09	*14h 05m*	20:15	*38m*	20:53	*43m*	21:37	*51m*	22:28	*9h 56m*	*5h 29m*				Do, 24. Aug
Fr, 25. Aug	MESZ	23:32 – 04:00*	*4h 27m*	$M_↘$ *bis* AN_-		16:34	23:32	03:57	*51m*	04:49	*44m*	05:33	*38m*	06:11	*14h 01m*	20:12	*37m*	20:50	*43m*	21:34	*50m*	22:25	*9h 59m*	*5h 35m*				Fr, 25. Aug
Sa, 26. Aug	MESZ	00:27* – 04:03*	*3h 35m*	$M_↘$ *bis* AN_-		17:47	—:—	04:00	*50m*	04:51	*43m*	05:34	*37m*	06:12	*13h 57m*	20:10	*37m*	20:48	*43m*	21:32	*50m*	22:22	*10h 03m*	*5h 41m*				Sa, 26. Aug
So, 27. Aug	MESZ	01:42* – 04:05*	*2h 23m*	$M_↘$ *bis* AN_-		18:45	00:27	04:03	*50m*	04:53	*43m*	05:36	*37m*	06:14	*13h 54m*	20:08	*37m*	20:46	*43m*	21:29	*49m*	22:18	*10h 07m*	*5h 46m*				So, 27. Aug
Mo, 28. Aug	MESZ	03:11* – 04:08*	*56m*	$M_↘$ *bis* AN_-		19:26	01:42	04:05	*49m*	04:55	*43m*	05:38	*37m*	06:16	*13h 50m*	20:06	*37m*	20:43	*42m*	21:26	*48m*	22:15	*10h 11m*	*5h 52m*				Mo, 28. Aug
Di, 29. Aug	MESZ	—:— – —:—	–	Mond stört		19:55	03:11	04:08	*49m*	04:57	*42m*	05:40	*37m*	06:17	*13h 46m*	20:04	*37m*	20:41	*42m*	21:24	*48m*	22:12	*10h 14m*	*5h 57m*				Di, 29. Aug
Mi, 30. Aug	MESZ	—:— – —:—	–	Mond stört		20:15	04:47	04:10	*48m*	04:59	*42m*	05:41	*37m*	06:19	*13h 42m*	20:02	*37m*	20:39	*42m*	21:21	*48m*	22:09	*10h 18m*	*6h 03m*				Mi, 30. Aug
Do, 31. Aug	MESZ	—:— – —:—	–	Mond stört	○	20:32	06:22	04:13	*48m*	05:01	*42m*	05:43	*37m*	06:20	*13h 39m*	19:59	*37m*	20:36	*42m*	21:19	*47m*	22:06	*10h 22m*	*6h 08m*				Do, 31. Aug
Fr, 1. Sep	MESZ	—:— – —:—	–	Mond stört		20:46	07:54	04:15	*47m*	05:03	*42m*	05:45	*37m*	06:22	*13h 35m*	19:57	*36m*	20:34	*41m*	21:16	*47m*	22:03	*10h 26m*	*6h 14m*				Fr, 1. Sep
Sa, 2. Sep	MESZ	—:— – —:—	–	Mond stört		20:59	09:23	04:17	*47m*	05:05	*41m*	05:46	*36m*	06:23	*13h 31m*	19:55	*36m*	20:32	*41m*	21:13	*46m*	22:00	*10h 30m*	*6h 19m*				Sa, 2. Sep
So, 3. Sep	MESZ	—:— – —:—	–	Mond stört		21:14	10:50	04:20	*46m*	05:07	*41m*	05:48	*36m*	06:25	*13h 27m*	19:53	*36m*	20:29	*41m*	21:11	*46m*	21:57	*10h 33m*	*6h 24m*				So, 3. Sep
Mo, 4. Sep	MESZ	—:— – —:—	–	Mond stört		21:31	12:16	04:22	*46m*	05:08	*41m*	05:50	*36m*	06:27	*13h 23m*	19:51	*36m*	20:27	*41m*	21:08	*45m*	21:54	*10h 37m*	*6h 30m*				Mo, 4. Sep
Di, 5. Sep	MESZ	21:51 – 21:52	*0m*	AN_+ *bis* $M_↗$		21:52	13:40	04:24	*45m*	05:10	*41m*	05:52	*36m*	06:28	*13h 20m*	19:48	*36m*	20:25	*41m*	21:06	*45m*	21:51	*10h 41m*	*6h 35m*				Di, 5. Sep
Mi, 6. Sep	MESZ	21:48 – 22:21	*32m*	AN_+ *bis* $M_↗$		22:21	15:00	04:27	*45m*	05:12	*41m*	05:53	*36m*	06:30	*13h 16m*	19:46	*36m*	20:22	*40m*	21:03	*45m*	21:48	*10h 45m*	*6h 40m*				Mi, 6. Sep
Do, 7. Sep	MESZ	21:45 – 23:00	*1h 14m*	AN_+ *bis* $M_↗$	◑	23:00	16:12	04:29	*45m*	05:14	*40m*	05:55	*36m*	06:31	*13h 12m*	19:44	*36m*	20:20	*40m*	21:01	*44m*	21:45	*10h 49m*	*6h 45m*				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	21:43 – 23:51	*2h 08m*	AN_+ *bis* $M_↗$		23:51	17:12	04:31	*44m*	05:16	*40m*	05:57	*36m*	06:33	*13h 08m*	19:42	*36m*	20:18	*40m*	20:58	*44m*	21:43	*10h 53m*	*6h 50m*				Fr, 8. Sep
Sa, 9. Sep	MESZ	21:40 – 00:54*	*3h 13m*	AN_+ *bis* $M_↗$		—:—	17:57	04:33	*44m*	05:18	*40m*	05:58	*36m*	06:35	*13h 04m*	19:39	*36m*	20:15	*40m*	20:56	*44m*	21:40	*10h 56m*	*6h 55m*				Sa, 9. Sep
So, 10. Sep	MESZ	21:37 – 02:03*	*4h 26m*	AN_+ *bis* $M_↗$		00:54	18:29	04:36	*44m*	05:20	*40m*	06:00	*36m*	06:36	*13h 00m*	19:37	*35m*	20:13	*40m*	20:53	*43m*	21:37	*11h 00m*	*7h 00m*				So, 10. Sep
Mo, 11. Sep	MESZ	21:34 – 03:16*	*5h 41m*	AN_+ *bis* $M_↗$		02:03	18:53	04:38	*43m*	05:22	*40m*	06:02	*36m*	06:38	*12h 57m*	19:35	*35m*	20:11	*39m*	20:51	*43m*	21:34	*11h 04m*	*7h 05m*				Mo, 11. Sep
Di, 12. Sep	MESZ	21:31 – 04:28*	*6h 56m*	AN_+ *bis* $M_↗$		03:16	19:10	04:40	*43m*	05:23	*39m*	06:03	*35m*	06:39	*12h 53m*	19:32	*35m*	20:08	*39m*	20:48	*43m*	21:31	*11h 08m*	*7h 10m*				Di, 12. Sep
Mi, 13. Sep	MESZ	21:28 – 04:44*	*7h 15m*	AN_+ *bis* AN_-		04:28	19:24	04:42	*43m*	05:25	*39m*	06:05	*35m*	06:41	*12h 49m*	19:30	*35m*	20:06	*39m*	20:46	*42m*	21:28	*11h 12m*	*7h 15m*				Mi, 13. Sep
Do, 14. Sep	MESZ	21:26 – 04:46*	*7h 20m*	AN_+ *bis* AN_-		05:39	19:35	04:44	*43m*	05:27	*39m*	06:07	*35m*	06:42	*12h 45m*	19:28	*35m*	20:04	*39m*	20:43	*42m*	21:26	*11h 16m*	*7h 20m*				Do, 14. Sep
Fr, 15. Sep	MESZ	21:23 – 04:48*	*7h 25m*	AN_+ *bis* AN_-	●	06:50	19:46	04:46	*42m*	05:29	*39m*	06:08	*35m*	06:44	*12h 41m*	19:26	*35m*	20:01	*39m*	20:41	*42m*	21:23	*11h 20m*	*7h 25m*				Fr, 15. Sep
Sa, 16. Sep	MESZ	21:20 – 04:50*	*7h 29m*	AN_+ *bis* AN_-		08:00	19:56	04:48	*42m*	05:31	*39m*	06:10	*35m*	06:46	*12h 37m*	19:23	*35m*	19:59	*39m*	20:38	*42m*	21:20	*11h 23m*	*7h 29m*				Sa, 16. Sep
So, 17. Sep	MESZ	21:18 – 04:52*	*7h 34m*	AN_+ *bis* AN_-		09:12	20:07	04:50	*42m*	05:32	*39m*	06:12	*35m*	06:47	*12h 33m*	19:21	*35m*	19:56	*39m*	20:36	*41m*	21:18	*11h 27m*	*7h 34m*				So, 17. Sep
Mo, 18. Sep	MESZ	21:15 – 04:54*	*7h 39m*	AN_+ *bis* AN_-		10:25	20:19	04:52	*42m*	05:34	*39m*	06:13	*35m*	06:49	*12h 29m*	19:19	*35m*	19:54	*38m*	20:33	*41m*	21:15	*11h 31m*	*7h 39m*				Mo, 18. Sep
Di, 19. Sep	MESZ	21:12 – 04:56*	*7h 43m*	AN_+ *bis* AN_-		11:42	20:35	04:54	*41m*	05:36	*39m*	06:15	*35m*	06:50	*12h 26m*	19:16	*35m*	19:52	*38m*	20:31	*41m*	21:12	*11h 35m*	*7h 43m*				Di, 19. Sep
Mi, 20. Sep	MESZ	21:10 – 04:58*	*7h 48m*	AN_+ *bis* AN_-		13:01	20:57	04:56	*41m*	05:38	*38m*	06:17	*35m*	06:52	*12h 22m*	19:14	*35m*	19:49	*38m*	20:28	*41m*	21:10	*11h 39m*	*7h 48m*				Mi, 20. Sep
Do, 21. Sep	MESZ	21:29 – 05:00*	*7h 31m*	$M_↘$ *bis* AN_-		14:21	21:29	04:58	*41m*	05:39	*38m*	06:18	*35m*	06:54	*12h 18m*	19:12	*35m*	19:47	*38m*	20:26	*41m*	21:07	*11h 43m*	*7h 53m*				Do, 21. Sep
Fr, 22. Sep	MESZ	22:15 – 05:02*	*6h 46m*	$M_↘$ *bis* AN_-	◐	15:35	22:15	05:00	*41m*	05:41	*38m*	06:20	*35m*	06:55	*12h 14m*	19:10	*35m*	19:45	*38m*	20:23	*40m*	21:04	*11h 47m*	*7h 57m*				Fr, 22. Sep
Sa, 23. Sep	MESZ	23:20 – 05:04*	*5h 43m*	$M_↘$ *bis* AN_-		16:37	23:20	05:02	*41m*	05:43	*38m*	06:21	*35m*	06:57	*12h 10m*	19:07	*35m*	19:42	*38m*	20:21	*40m*	21:02	*11h 51m*	*8h 02m*				Sa, 23. Sep
So, 24. Sep	MESZ	00:41* – 05:06*	*4h 24m*	$M_↘$ *bis* AN_-		17:23	—:—	05:04	*40m*	05:45	*38m*	06:23	*35m*	06:58	*12h 06m*	19:05	*35m*	19:40	*38m*	20:18	*40m*	20:59	*11h 55m*	*8h 06m*				So, 24. Sep
Mo, 25. Sep	MESZ	02:12* – 05:07*	*2h 54m*	$M_↘$ *bis* AN_-		17:55	00:41	05:06	*40m*	05:46	*38m*	06:25	*35m*	07:00	*12h 02m*	19:03	*35m*	19:38	*38m*	20:16	*40m*	20:57	*11h 58m*	*8h 10m*				Mo, 25. Sep
Di, 26. Sep	MESZ	03:46* – 05:09*	*1h 23m*	$M_↘$ *bis* AN_-		18:18	02:12	05:07	*40m*	05:48	*38m*	06:26	*35m*	07:02	*11h 58m*	19:00	*35m*	19:36	*38m*	20:14	*40m*	20:54	*12h 02m*	*8h 15m*				Di, 26. Sep
Mi, 27. Sep	MESZ	—:— – —:—	–	Mond stört		18:36	03:46	05:09	*40m*	05:50	*38m*	06:28	*35m*	07:03	*11h 54m*	18:58	*35m*	19:33	*38m*	20:11	*40m*	20:51	*12h 06m*	*8h 19m*				Mi, 27. Sep
Do, 28. Sep	MESZ	—:— – —:—	–	Mond stört		18:50	05:18	05:11	*40m*	05:51	*38m*	06:30	*35m*	07:05	*11h 51m*	18:56	*35m*	19:31	*38m*	20:09	*39m*	20:49	*12h 10m*	*8h 23m*				Do, 28. Sep
Fr, 29. Sep	MESZ	—:— – —:—	–	Mond stört	○	19:04	06:49	05:13	*40m*	05:53	*38m*	06:31	*35m*	07:06	*11h 47m*	18:53	*35m*	19:29	*38m*	20:07	*39m*	20:46	*12h 14m*	*8h 28m*				Fr, 29. Sep
Sa, 30. Sep	MESZ	—:— – —:—	–	Mond stört		19:17	08:17	05:15	*39m*	05:55	*38m*	06:33	*35m*	07:08	*11h 43m*	18:51	*35m*	19:26	*37m*	20:04	*39m*	20:44	*12h 18m*	*8h 32m*				Sa, 30. Sep
So, 1. Okt	MESZ	—:— – —:—	–	Mond stört		19:33	09:46	05:17	*39m*	05:56	*38m*	06:34	*35m*	07:10	*11h 39m*	18:49	*35m*	19:24	*37m*	20:02	*39m*	20:42	*12h 22m*	*8h 36m*				So, 1. Okt
Mo, 2. Okt	MESZ	—:— – —:—	–	Mond stört		19:53	11:13	05:18	*39m*	05:58	*37m*	06:36	*35m*	07:11	*11h 35m*	18:47	*35m*	19:22	*37m*	20:00	*39m*	20:39	*12h 26m*	*8h 40m*				Mo, 2. Okt
Di, 3. Okt	MESZ	—:— – —:—	–	Mond stört		20:19	12:39	05:20	*39m*	06:00	*37m*	06:38	*35m*	07:13	*11h 31m*	18:44	*35m*	19:20	*37m*	19:57	*39m*	20:37	*12h 30m*	*8h 45m*				Di, 3. Okt
Mi, 4. Okt	MESZ	20:34 – 20:54	*19m*	AN_+ *bis* $M_↗$		20:54	13:57	05:22	*39m*	06:01	*37m*	06:39	*35m*	07:14	*11h 27m*	18:42	*35m*	19:17	*37m*	19:55	*39m*	20:34	*12h 33m*	*8h 49m*				Mi, 4. Okt
Do, 5. Okt	MESZ	20:32 – 21:41	*1h 09m*	AN_+ *bis* $M_↗$		21:41	15:04	05:24	*39m*	06:03	*37m*	06:41	*35m*	07:16	*11h 23m*	18:40	*35m*	19:15	*37m*	19:53	*39m*	20:32	*12h 37m*	*8h 53m*				Do, 5. Okt
Fr, 6. Okt	MESZ	20:30 – 22:41	*2h 11m*	AN_+ *bis* $M_↗$	◑	22:41	15:55	05:25	*39m*	06:05	*37m*	06:42	*35m*	07:18	*11h 19m*	18:38	*35m*	19:13	*37m*	19:51	*39m*	20:30	*12h 41m*	*8h 57m*				Fr, 6. Okt
Sa, 7. Okt	MESZ	20:27 – 23:49	*3h 21m*	AN_+ *bis* $M_↗$		23:49	16:32	05:27	*39m*	06:06	*37m*	06:44	*35m*	07:19	*11h 16m*	18:36	*35m*	19:11	*37m*	19:48	*39m*	20:27	*12h 45m*	*9h 01m*				Sa, 7. Okt
So, 8. Okt	MESZ	20:25 – 01:02*	*4h 36m*	AN_+ *bis* $M_↗$		—:—	16:58	05:29	*39m*	06:08	*37m*	06:46	*35m*	07:21	*11h 12m*	18:33	*35m*	19:09	*37m*	19:46	*38m*	20:25	*12h 49m*	*9h 05m*				So, 8. Okt
Mo, 9. Okt	MESZ	20:23 – 02:15*	*5h 51m*	AN_+ *bis* $M_↗$		01:02	17:18	05:31	*39m*	06:10	*37m*	06:47	*35m*	07:23	*11h 08m*	18:31	*35m*	19:06	*37m*	19:44	*38m*	20:23	*12h 53m*	*9h 09m*				Mo, 9. Okt
Di, 10. Okt	MESZ	20:21 – 03:27*	*7h 05m*	AN_+ *bis* $M_↗$		02:15	17:32	05:32	*38m*	06:11	*37m*	06:49	*35m*	07:24	*11h 04m*	18:29	*35m*	19:04	*37m*	19:42	*38m*	20:21	*12h 57m*	*9h 13m*				Di, 10. Okt
Mi, 11. Okt	MESZ	20:19 – 04:37*	*8h 18m*	AN_+ *bis* $M_↗$		03:27	17:44	05:34	*38m*	06:13	*37m*	06:51	*35m*	07:26	*11h 00m*	18:27	*35m*	19:02	*37m*	19:40	*38m*	20:19	*13h 00m*	*9h 17m*				Mi, 11. Okt
Do, 12. Okt	MESZ	20:16 – 05:37*	*9h 20m*	AN_+ *bis* AN_-		04:37	17:55	05:36	*38m*	06:14	*37m*	06:52	*35m*	07:28	*10h 56m*	18:25	*35m*	19:00	*37m*	19:38	*38m*	20:16	*13h 04m*	*9h 20m*				Do, 12. Okt
Fr, 13. Okt	MESZ	20:14 – 05:39*	*9h 24m*	AN_+ *bis* AN_-		05:48	18:05	05:37	*38m*	06:16	*37m*	06:54	*35m*	07:29	*10h 53m*	18:22	*35m*	18:58	*37m*	19:36	*38m*	20:14	*13h 08m*	*9h 24m*				Fr, 13. Okt
Sa, 14. Okt	MESZ	20:12 – 05:41*	*9h 28m*	AN_+ *bis* AN_-	●	07:00	18:15	05:39	*38m*	06:18	*37m*	06:55	*35m*	07:31	*10h 49m*	18:20	*35m*	18:56	*37m*	19:33	*38m*	20:12	*13h 12m*	*9h 28m*				Sa, 14. Okt
So, 15. Okt	MESZ	20:10 – 05:42*	*9h 32m*	AN_+ *bis* AN_-		08:13	18:27	05:41	*38m*	06:19	*37m*	06:57	*35m*	07:33	*10h 45m*	18:18	*35m*	18:54	*37m*	19:31	*38m*	20:10	*13h 16m*	*9h 32m*				So, 15. Okt
Mo, 16. Okt	MESZ	20:08 – 05:44*	*9h 36m*	AN_+ *bis* AN_-		09:30	18:42	05:42	*38m*	06:21	*37m*	06:59	*35m*	07:34	*10h 41m*	18:16	*35m*	18:52	*37m*	19:29	*38m*	20:08	*13h 20m*	*9h 36m*				Mo, 16. Okt
Di, 17. Okt	MESZ	20:06 – 05:46*	*9h 39m*	AN_+ *bis* AN_-		10:50	19:02	05:44	*38m*	06:23	*37m*	07:00	*35m*	07:36	*10h 37m*	18:14	*35m*	18:50	*37m*	19:27	*38m*	20:06	*13h 23m*	*9h 39m*				Di, 17. Okt
Mi, 18. Okt	MESZ	20:04 – 05:47*	*9h 43m*	AN_+ *bis* AN_-		12:10	19:30	05:46	*38m*	06:24	*37m*	07:02	*35m*	07:38	*10h 33m*	18:12	*35m*	18:48	*37m*	19:25	*38m*	20:04	*13h 27m*	*9h 43m*				Mi, 18. Okt
Do, 19. Okt	MESZ	20:11 – 05:49*	*9h 37m*	$M_↘$ *bis* AN_-		13:27	20:11	05:47	*38m*	06:26	*37m*	07:04	*35m*	07:40	*10h 30m*	18:10	*35m*	18:46	*37m*	19:23	*38m*	20:02	*13h 31m*	*9h 47m*				Do, 19. Okt
Fr, 20. Okt	MESZ	21:09 – 05:50*	*8h 40m*	$M_↘$ *bis* AN_-		14:32	21:09	05:49	*38m*	06:27	*37m*	07:05	*36m*	07:41	*10h 26m*	18:08	*35m*	18:44	*37m*	19:21	*38m*	20:00	*13h 35m*	*9h 50m*				Fr, 20. Okt
Sa, 21. Okt	MESZ	22:24 – 05:52*	*7h 27m*	$M_↘$ *bis* AN_-		15:22	22:24	05:50	*38m*	06:29	*37m*	07:07	*36m*	07:43	*10h 22m*	18:06	*36m*	18:42	*37m*	19:19	*38m*	19:58	*13h 39m*	*9h 54m*				Sa, 21. Okt
So, 22. Okt	MESZ	23:50 – 05:54*	*6h 03m*	$M_↘$ *bis* AN_-	◐	15:58	23:50	05:52	*38m*	06:31	*37m*	07:09	*36m*	07:45	*10h 18m*	18:04	*36m*	18:40	*37m*	19:18	*38m*	19:56	*13h 42m*	*9h 57m*				So, 22. Okt
Mo, 23. Okt	MESZ	01:20* – 05:55*	*4h 34m*	$M_↘$ *bis* AN_-		16:22	—:—	05:54	*38m*	06:32	*38m*	07:10	*36m*	07:46	*10h 15m*	18:02	*36m*	18:38	*37m*	19:16	*38m*	19:54	*13h 46m*	*10h 01m*				Mo, 23. Okt
Di, 24. Okt	MESZ	02:50* – 05:57*	*3h 06m*	$M_↘$ *bis* AN_-		16:41	01:20	05:55	*38m*	06:34	*38m*	07:12	*36m*	07:48	*10h 11m*	18:00	*36m*	18:36	*37m*	19:14	*38m*	19:52	*13h 50m*	*10h 04m*				Di, 24. Okt
Mi, 25. Okt	MESZ	04:18* – 05:58*	*1h 40m*	$M_↘$ *bis* AN_-		16:56	02:50	05:57	*38m*	06:35	*38m*	07:13	*36m*	07:50	*10h 07m*	17:58	*36m*	18:34	*38m*	19:12	*38m*	19:50	*13h 53m*	*10h 08m*				Mi, 25. Okt
Do, 26. Okt	MESZ	05:45* – 06:00*	*14m*	$M_↘$ *bis* AN_-		17:09	04:18	05:58	*38m*	06:37	*38m*	07:15	*36m*	07:52	*10h 04m*	17:56	*36m*	18:32	*38m*	19:10	*38m*	19:49	*13h 57m*	*10h 11m*				Do, 26. Okt
Fr, 27. Okt	MESZ	—:— – —:—	–	Mond stört		17:22	05:45	06:00	*38m*	06:38	*38m*	07:17	*36m*	07:53	*10h 00m*	17:54	*36m*	18:30	*38m*	19:08	*38m*	19:47	*14h 01m*	*10h 14m*				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	○	17:37	07:13	06:02	*38m*	06:40	*38m*	07:18	*36m*	07:55	*9h 56m*	17:52	*36m*	18:28	*38m*	19:07	*38m*	19:45	*14h 04m*	*10h 17m*				Sa, 28. Okt
So, 29. Okt		—:——:—	–	Mond stört		16:54	07:41	05:03	*38m*	05:42	*38m*	06:20	*36m*	06:57	*9h 53m*	16:50	*36m*	17:27	*38m*	18:05	*38m*	18:43	*14h 08m*	*10h 21m*				So, 29. Okt
Mo, 30. Okt		—:——:—	–	Mond stört		17:17	09:08	05:05	*38m*	05:43	*38m*	06:22	*36m*	06:59	*9h 49m*	16:48	*36m*	17:25	*38m*	18:03	*38m*	18:42	*14h 12m*	*10h 24m*				Mo, 30. Okt
Di, 31. Okt		—:——:—	–	Mond stört		17:48	10:32	05:06	*38m*	05:45	*38m*	06:23	*37m*	07:00	*9h 45m*	16:46	*37m*	17:23	*38m*	18:02	*38m*	18:40	*14h 15m*	*10h 27m*				Di, 31. Okt
Mi, 1. Nov		—:——:—	–	Mond stört		18:30	11:47	05:08	*38m*	05:46	*38m*	06:25	*37m*	07:02	*9h 42m*	16:44	*37m*	17:22	*38m*	18:00	*38m*	18:39	*14h 19m*	*10h 30m*				Mi, 1. Nov
Do, 2. Nov		18:37 – 19:26	*49m*	AN_+ *bis* $M_↗$		19:26	12:46	05:09	*38m*	05:48	*38m*	06:26	*37m*	07:04	*9h 38m*	16:43	*37m*	17:20	*38m*	17:58	*38m*	18:37	*14h 22m*	*10h 33m*				Do, 2. Nov
Fr, 3. Nov		18:35 – 20:33	*1h 57m*	AN_+ *bis* $M_↗$		20:33	13:30	05:11	*38m*	05:49	*38m*	06:28	*37m*	07:06	*9h 35m*	16:41	*37m*	17:18	*38m*	17:57	*38m*	18:35	*14h 26m*	*10h 36m*				Fr, 3. Nov
Sa, 4. Nov		18:34 – 21:45	*3h 11m*	AN_+ *bis* $M_↗$		21:45	14:01	05:12	*38m*	05:51	*38m*	06:30	*37m*	07:07	*9h 31m*	16:39	*37m*	17:17	*38m*	17:55	*38m*	18:34	*14h 29m*	*10h 39m*				Sa, 4. Nov
So, 5. Nov		18:32 – 22:58	*4h 25m*	AN_+ *bis* $M_↗$	◑	22:58	14:23	05:14	*38m*	05:53	*38m*	06:31	*37m*	07:09	*9h 28m*	16:37	*37m*	17:15	*38m*	17:54	*38m*	18:32	*14h 33m*	*10h 42m*				So, 5. Nov
Mo, 6. Nov		18:31 – 00:11*	*5h 39m*	AN_+ *bis* $M_↗$		—:—	14:39	05:15	*38m*	05:54	*38m*	06:33	*37m*	07:11	*9h 24m*	16:36	*37m*	17:13	*38m*	17:52	*38m*	18:31	*14h 36m*	*10h 45m*				Mo, 6. Nov
Di, 7. Nov		18:30 – 01:22*	*6h 52m*	AN_+ *bis* $M_↗$		00:11	14:52	05:17	*38m*	05:56	*38m*	06:35	*37m*	07:13	*9h 21m*	16:34	*37m*	17:12	*38m*	17:51	*38m*	18:30	*14h 40m*	*10h 48m*				Di, 7. Nov
Mi, 8. Nov		18:28 – 02:32*	*8h 03m*	AN_+ *bis* $M_↗$		01:22	15:03	05:18	*38m*	05:57	*39m*	06:36	*38m*	07:14	*9h 18m*	16:32	*38m*	17:10	*39m*	17:50	*38m*	18:28	*14h 43m*	*10h 51m*				Mi, 8. Nov
Do, 9. Nov		18:27 – 03:43*	*9h 16m*	AN_+ *bis* $M_↗$		02:32	15:13	05:20	*38m*	05:59	*39m*	06:38	*38m*	07:16	*9h 14m*	16:31	*38m*	17:09	*39m*	17:48	*38m*	18:27	*14h 46m*	*10h 54m*				Do, 9. Nov
Fr, 10. Nov		18:26 – 04:56*	*10h 30m*	AN_+ *bis* $M_↗$		03:43	15:23	05:21	*38m*	06:00	*39m*	06:39	*38m*	07:18	*9h 11m*	16:29	*38m*	17:08	*39m*	17:47	*38m*	18:26	*14h 50m*	*10h 57m*				Fr, 10. Nov
Sa, 11. Nov		18:24 – 05:24*	*10h 59m*	AN_+ *bis* AN_-		04:56	15:35	05:23	*38m*	06:02	*39m*	06:41	*38m*	07:20	*9h 08m*	16:28	*38m*	17:06	*39m*	17:46	*38m*	18:24	*14h 53m*	*10h 59m*				Sa, 11. Nov
So, 12. Nov		18:23 – 05:26*	*11h 02m*	AN_+ *bis* AN_-		06:12	15:49	05:24	*38m*	06:03	*39m*	06:43	*38m*	07:21	*9h 05m*	16:26	*38m*	17:05	*39m*	17:44	*38m*	18:23	*14h 56m*	*11h 02m*				So, 12. Nov
Mo, 13. Nov		18:22 – 05:27*	*11h 05m*	AN_+ *bis* AN_-	●	07:32	16:07	05:26	*39m*	06:05	*39m*	06:44	*38m*	07:23	*9h 01m*	16:25	*38m*	17:04	*39m*	17:43	*38m*	18:22	*14h 59m*	*11h 05m*				Mo, 13. Nov
Di, 14. Nov		18:21 – 05:29*	*11h 07m*	AN_+ *bis* AN_-		08:54	16:32	05:27	*39m*	06:06	*39m*	06:46	*38m*	07:25	*8h 58m*	16:23	*38m*	17:02	*39m*	17:42	*39m*	18:21	*15h 02m*	*11h 07m*				Di, 14. Nov
Mi, 15. Nov		18:20 – 05:30*	*11h 10m*	AN_+ *bis* AN_-		10:14	17:09	05:29	*39m*	06:08	*39m*	06:47	*38m*	07:26	*8h 55m*	16:22	*38m*	17:01	*39m*	17:41	*39m*	18:20	*15h 05m*	*11h 10m*				Mi, 15. Nov
Do, 16. Nov		18:19 – 05:31*	*11h 12m*	AN_+ *bis* AN_-		11:26	18:03	05:30	*39m*	06:09	*39m*	06:49	*39m*	07:28	*8h 52m*	16:21	*39m*	17:00	*39m*	17:40	*39m*	18:19	*15h 09m*	*11h 12m*				Do, 16. Nov
Fr, 17. Nov		19:14 – 05:33*	*10h 18m*	$M_↘$ *bis* AN_-		12:21	19:14	05:31	*39m*	06:11	*39m*	06:51	*39m*	07:30	*8h 49m*	16:19	*39m*	16:59	*39m*	17:39	*39m*	18:18	*15h 11m*	*11h 14m*				Fr, 17. Nov
Sa, 18. Nov		20:37 – 05:34*	*8h 56m*	$M_↘$ *bis* AN_-		13:00	20:37	05:33	*39m*	06:12	*39m*	06:52	*39m*	07:31	*8h 46m*	16:18	*39m*	16:58	*39m*	17:38	*39m*	18:17	*15h 14m*	*11h 17m*				Sa, 18. Nov
So, 19. Nov		22:06 – 05:35*	*7h 29m*	$M_↘$ *bis* AN_-		13:28	22:06	05:34	*39m*	06:13	*40m*	06:54	*39m*	07:33	*8h 43m*	16:17	*39m*	16:57	*40m*	17:37	*39m*	18:16	*15h 17m*	*11h 19m*				So, 19. Nov
Mo, 20. Nov		23:33 – 05:37*	*6h 03m*	$M_↘$ *bis* AN_-	◐	13:47	23:33	05:35	*39m*	06:15	*40m*	06:55	*39m*	07:35	*8h 41m*	16:16	*39m*	16:55	*40m*	17:36	*39m*	18:15	*15h 20m*	*11h 21m*				Mo, 20. Nov
Di, 21. Nov		00:59* – 05:38*	*4h 38m*	$M_↘$ *bis* AN_-		14:03	—:—	05:37	*39m*	06:16	*40m*	06:57	*39m*	07:36	*8h 38m*	16:15	*39m*	16:54	*40m*	17:35	*39m*	18:14	*15h 23m*	*11h 24m*				Di, 21. Nov
Mi, 22. Nov		02:24* – 05:39*	*3h 15m*	$M_↘$ *bis* AN_-		14:16	00:59	05:38	*39m*	06:18	*40m*	06:58	*39m*	07:38	*8h 35m*	16:14	*39m*	16:54	*40m*	17:34	*39m*	18:13	*15h 26m*	*11h 26m*				Mi, 22. Nov
Do, 23. Nov		03:48* – 05:41*	*1h 52m*	$M_↘$ *bis* AN_-		14:29	02:24	05:39	*39m*	06:19	*40m*	06:59	*40m*	07:40	*8h 32m*	16:13	*40m*	16:53	*40m*	17:33	*39m*	18:13	*15h 28m*	*11h 28m*				Do, 23. Nov
Fr, 24. Nov		05:14* – 05:42*	*28m*	$M_↘$ *bis* AN_-		14:42	03:48	05:41	*39m*	06:20	*40m*	07:01	*40m*	07:41	*8h 30m*	16:12	*40m*	16:52	*40m*	17:32	*39m*	18:12	*15h 31m*	*11h 30m*				Fr, 24. Nov
Sa, 25. Nov		—:——:—	–	Mond stört		14:58	05:14	05:42	*39m*	06:22	*40m*	07:02	*40m*	07:43	*8h 27m*	16:11	*40m*	16:51	*40m*	17:32	*39m*	18:11	*15h 33m*	*11h 32m*				Sa, 25. Nov
So, 26. Nov		—:——:—	–	Mond stört		15:17	06:40	05:43	*39m*	06:23	*40m*	07:04	*40m*	07:44	*8h 25m*	16:10	*40m*	16:50	*40m*	17:31	*39m*	18:11	*15h 36m*	*11h 33m*				So, 26. Nov
Mo, 27. Nov		—:——:—	–	Mond stört	○	15:44	08:05	05:45	*39m*	06:24	*40m*	07:05	*40m*	07:46	*8h 23m*	16:09	*40m*	16:49	*40m*	17:30	*39m*	18:10	*15h 38m*	*11h 35m*				Mo, 27. Nov
Di, 28. Nov		—:——:—	–	Mond stört		16:21	09:25	05:46	*39m*	06:26	*40m*	07:07	*40m*	07:47	*8h 20m*	16:08	*40m*	16:49	*40m*	17:30	*39m*	18:09	*15h 40m*	*11h 37m*				Di, 28. Nov
Mi, 29. Nov		—:——:—	–	Mond stört		17:12	10:32	05:47	*39m*	06:27	*40m*	07:08	*40m*	07:49	*8h 18m*	16:07	*40m*	16:48	*40m*	17:29	*39m*	18:09	*15h 42m*	*11h 39m*				Mi, 29. Nov
Do, 30. Nov		18:09 – 18:15	*6m*	AN_+ *bis* $M_↗$		18:15	11:23	05:48	*39m*	06:28	*41m*	07:09	*41m*	07:50	*8h 16m*	16:07	*41m*	16:48	*41m*	17:29	*39m*	18:09	*15h 45m*	*11h 40m*				Do, 30. Nov
Fr, 1. Dez		18:08 – 19:26	*1h 18m*	AN_+ *bis* $M_↗$		19:26	12:00	05:49	*40m*	06:29	*41m*	07:10	*41m*	07:52	*8h 14m*	16:06	*41m*	16:47	*41m*	17:28	*39m*	18:08	*15h 47m*	*11h 42m*				Fr, 1. Dez
Sa, 2. Dez		18:08 – 20:40	*2h 32m*	AN_+ *bis* $M_↗$		20:40	12:25	05:50	*40m*	06:30	*41m*	07:12	*41m*	07:53	*8h 12m*	16:05	*41m*	16:46	*41m*	17:28	*40m*	18:08	*15h 49m*	*11h 43m*				Sa, 2. Dez
So, 3. Dez		18:07 – 21:54	*3h 46m*	AN_+ *bis* $M_↗$		21:54	12:44	05:52	*40m*	06:32	*41m*	07:13	*41m*	07:54	*8h 10m*	16:05	*41m*	16:46	*41m*	17:27	*40m*	18:07	*15h 50m*	*11h 45m*				So, 3. Dez
Mo, 4. Dez		18:07 – 23:05	*4h 58m*	AN_+ *bis* $M_↗$		23:05	12:58	05:53	*40m*	06:33	*41m*	07:14	*41m*	07:56	*8h 08m*	16:04	*41m*	16:46	*41m*	17:27	*40m*	18:07	*15h 52m*	*11h 46m*				Mo, 4. Dez
Di, 5. Dez		18:07 – 00:15*	*6h 08m*	AN_+ *bis* $M_↗$	◑	—:—	13:10	05:54	*40m*	06:34	*41m*	07:15	*41m*	07:57	*8h 06m*	16:04	*41m*	16:45	*41m*	17:27	*40m*	18:07	*15h 54m*	*11h 47m*				Di, 5. Dez
Mi, 6. Dez		18:07 – 01:25*	*7h 18m*	AN_+ *bis* $M_↗$		00:15	13:20	05:55	*40m*	06:35	*41m*	07:16	*41m*	07:58	*8h 05m*	16:03	*41m*	16:45	*41m*	17:26	*40m*	18:07	*15h 56m*	*11h 49m*				Mi, 6. Dez
Do, 7. Dez		18:07 – 02:36*	*8h 29m*	AN_+ *bis* $M_↗$		01:25	13:30	05:56	*40m*	06:36	*41m*	07:18	*41m*	07:59	*8h 03m*	16:03	*41m*	16:45	*41m*	17:26	*40m*	18:07	*15h 57m*	*11h 50m*				Do, 7. Dez
Fr, 8. Dez		18:06 – 03:50*	*9h 43m*	AN_+ *bis* $M_↗$		02:36	13:41	05:57	*40m*	06:37	*41m*	07:19	*41m*	08:01	*8h 02m*	16:03	*41m*	16:45	*41m*	17:26	*40m*	18:06	*15h 58m*	*11h 51m*				Fr, 8. Dez
Sa, 9. Dez		18:06 – 05:08*	*11h 01m*	AN_+ *bis* $M_↗$		03:50	13:53	05:58	*40m*	06:38	*41m*	07:20	*41m*	08:02	*8h 00m*	16:02	*41m*	16:44	*41m*	17:26	*40m*	18:06	*16h 00m*	*11h 52m*				Sa, 9. Dez
So, 10. Dez		18:06 – 05:59*	*11h 53m*	AN_+ *bis* AN_-		05:08	14:10	05:59	*40m*	06:39	*41m*	07:21	*42m*	08:03	*7h 59m*	16:02	*42m*	16:44	*41m*	17:26	*40m*	18:06	*16h 01m*	*11h 53m*				So, 10. Dez
Mo, 11. Dez		18:06 – 06:00*	*11h 53m*	AN_+ *bis* AN_-		06:30	14:32	05:59	*40m*	06:40	*41m*	07:22	*42m*	08:04	*7h 58m*	16:02	*42m*	16:44	*41m*	17:26	*40m*	18:06	*16h 02m*	*11h 53m*				Mo, 11. Dez
Di, 12. Dez		18:07 – 06:01*	*11h 54m*	AN_+ *bis* AN_-		07:53	15:04	06:00	*40m*	06:41	*41m*	07:23	*42m*	08:05	*7h 57m*	16:02	*42m*	16:44	*41m*	17:26	*40m*	18:07	*16h 03m*	*11h 54m*				Di, 12. Dez
Mi, 13. Dez		18:07 – 06:02*	*11h 55m*	AN_+ *bis* AN_-	●	09:10	15:52	06:01	*40m*	06:42	*41m*	07:24	*42m*	08:06	*7h 56m*	16:02	*42m*	16:44	*41m*	17:26	*40m*	18:07	*16h 04m*	*11h 55m*				Mi, 13. Dez
Do, 14. Dez		18:07 – 06:03*	*11h 55m*	AN_+ *bis* AN_-		10:13	16:59	06:02	*40m*	06:43	*41m*	07:24	*42m*	08:07	*7h 55m*	16:02	*42m*	16:44	*41m*	17:26	*40m*	18:07	*16h 05m*	*11h 55m*				Do, 14. Dez
Fr, 15. Dez		18:21 – 06:04*	*11h 42m*	$M_↘$ *bis* AN_-		10:59	18:21	06:03	*40m*	06:43	*41m*	07:25	*42m*	08:08	*7h 54m*	16:02	*42m*	16:45	*41m*	17:27	*40m*	18:07	*16h 06m*	*11h 56m*				Fr, 15. Dez
Sa, 16. Dez		19:51 – 06:04*	*10h 13m*	$M_↘$ *bis* AN_-		11:31	19:51	06:04	*40m*	06:44	*41m*	07:26	*42m*	08:08	*7h 54m*	16:02	*42m*	16:45	*41m*	17:27	*40m*	18:07	*16h 06m*	*11h 56m*				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		Δt		Ph.	↗	↘	Astr.	Δt	Naut.	Δt	Bürg.	Δt	↗	Δt	↘	Δt	Bürg.	Δt	Naut.	Δt	Astr.	Δt	Δt		Δt		
So, 17. Dez		21:20 – 06:05*	*8h 44m*	M↘ *bis* AN−		11:53	21:20	06:04	*40m*	06:45	*41m*	07:27	*42m*	08:09	*7h 53m*	16:03	*42m*	16:45	*41m*	17:27	*40m*	18:08	*16h 07m*	*11h 57m*				So, 17. Dez
Mo, 18. Dez		22:48 – 06:05*	*7h 17m*	M↘ *bis* AN−		12:10	22:48	06:05	*40m*	06:45	*42m*	07:27	*42m*	08:10	*7h 53m*	16:03	*42m*	16:45	*42m*	17:27	*40m*	18:08	*16h 07m*	*11h 57m*				Mo, 18. Dez
Di, 19. Dez		00:12* – 06:06*	*5h 54m*	M↘ *bis* AN−	◐	12:24	—:—	06:05	*40m*	06:46	*42m*	07:28	*42m*	08:11	*7h 52m*	16:03	*42m*	16:46	*42m*	17:28	*40m*	18:08	*16h 07m*	*11h 57m*				Di, 19. Dez
Mi, 20. Dez		01:35* – 06:07*	*4h 31m*	M↘ *bis* AN−		12:36	00:12	06:06	*40m*	06:47	*42m*	07:29	*42m*	08:11	*7h 52m*	16:04	*42m*	16:46	*42m*	17:28	*40m*	18:09	*16h 08m*	*11h 57m*				Mi, 20. Dez
Do, 21. Dez		02:58* – 06:07*	*3h 09m*	M↘ *bis* AN−		12:49	01:35	06:07	*40m*	06:47	*42m*	07:29	*42m*	08:12	*7h 52m*	16:04	*42m*	16:47	*42m*	17:29	*40m*	18:09	*16h 08m*	*11h 57m*				Do, 21. Dez
Fr, 22. Dez		04:22* – 06:08*	*1h 46m*	M↘ *bis* AN−		13:03	02:58	06:07	*40m*	06:48	*42m*	07:30	*42m*	08:12	*7h 52m*	16:05	*42m*	16:47	*42m*	17:29	*40m*	18:10	*16h 08m*	*11h 57m*				Fr, 22. Dez
Sa, 23. Dez		05:45* – 06:08*	*22m*	M↘ *bis* AN−		13:21	04:22	06:08	*40m*	06:48	*42m*	07:30	*42m*	08:13	*7h 52m*	16:05	*42m*	16:48	*42m*	17:30	*40m*	18:10	*16h 08m*	*11h 57m*				Sa, 23. Dez
So, 24. Dez		—:— – —:—	–	Mond stört		13:44	05:45	06:08	*40m*	06:49	*42m*	07:31	*42m*	08:13	*7h 52m*	16:06	*42m*	16:48	*42m*	17:30	*40m*	18:11	*16h 07m*	*11h 57m*				So, 24. Dez
Mo, 25. Dez		—:— – —:—	–	Mond stört		14:17	07:06	06:08	*40m*	06:49	*42m*	07:31	*42m*	08:13	*7h 52m*	16:06	*42m*	16:49	*42m*	17:31	*40m*	18:11	*16h 07m*	*11h 57m*				Mo, 25. Dez
Di, 26. Dez		—:— – —:—	–	Mond stört		15:01	08:17	06:09	*40m*	06:49	*42m*	07:31	*42m*	08:14	*7h 53m*	16:07	*42m*	16:50	*42m*	17:32	*40m*	18:12	*16h 06m*	*11h 57m*				Di, 26. Dez
Mi, 27. Dez		—:— – —:—	–	Mond stört	○	16:00	09:15	06:09	*40m*	06:50	*41m*	07:32	*42m*	08:14	*7h 53m*	16:08	*42m*	16:50	*41m*	17:32	*40m*	18:13	*16h 06m*	*11h 56m*				Mi, 27. Dez
Do, 28. Dez		—:— – —:—	–	Mond stört		17:09	09:57	06:09	*40m*	06:50	*41m*	07:32	*42m*	08:14	*7h 54m*	16:09	*42m*	16:51	*41m*	17:33	*40m*	18:13	*16h 05m*	*11h 56m*				Do, 28. Dez
Fr, 29. Dez		18:14 – 18:22	*8m*	AN+ *bis* M↗		18:22	10:26	06:10	*40m*	06:50	*41m*	07:32	*42m*	08:14	*7h 55m*	16:10	*42m*	16:52	*41m*	17:34	*40m*	18:14	*16h 04m*	*11h 55m*				Fr, 29. Dez
Sa, 30. Dez		18:15 – 19:37	*1h 21m*	AN+ *bis* M↗		19:37	10:47	06:10	*40m*	06:50	*41m*	07:32	*42m*	08:14	*7h 55m*	16:10	*42m*	16:53	*41m*	17:35	*40m*	18:15	*16h 04m*	*11h 54m*				Sa, 30. Dez
So, 31. Dez		18:16 – 20:49	*2h 33m*	AN+ *bis* M↗		20:49	11:03	06:10	*40m*	06:50	*41m*	07:32	*42m*	08:14	*7h 56m*	16:11	*42m*	16:54	*41m*	17:35	*40m*	18:16	*16h 03m*	*11h 54m*				So, 31. Dez
Mo, 1. Jan		18:17 – 22:00	*3h 43m*	AN+ *bis* M↗		22:00	11:16	06:10	*40m*	06:50	*41m*	07:32	*42m*	08:14	*7h 57m*	16:12	*42m*	16:55	*41m*	17:36	*40m*	18:17	*16h 01m*	*11h 53m*				Mo, 1. Jan
Di, 2. Jan		18:18 – 23:09	*4h 51m*	AN+ *bis* M↗		23:09	11:26	06:10	*40m*	06:51	*41m*	07:32	*42m*	08:14	*7h 59m*	16:13	*42m*	16:55	*41m*	17:37	*40m*	18:18	*16h 00m*	*11h 52m*				Di, 2. Jan
Mi, 3. Jan		18:19 – 00:18*	*5h 59m*	AN+ *bis* M↗		—:—	11:36	06:10	*40m*	06:50	*41m*	07:32	*41m*	08:14	*8h 00m*	16:15	*41m*	16:57	*41m*	17:38	*40m*	18:19	*15h 59m*	*11h 51m*				Mi, 3. Jan
Do, 4. Jan		18:20 – 01:30*	*7h 10m*	AN+ *bis* M↗	◑	00:18	11:47	06:10	*40m*	06:50	*41m*	07:32	*41m*	08:14	*8h 01m*	16:16	*41m*	16:58	*41m*	17:39	*40m*	18:20	*15h 58m*	*11h 50m*				Do, 4. Jan
Fr, 5. Jan		18:21 – 02:44*	*8h 23m*	AN+ *bis* M↗		01:30	11:58	06:10	*40m*	06:50	*41m*	07:32	*41m*	08:14	*8h 03m*	16:17	*41m*	16:59	*41m*	17:40	*40m*	18:21	*15h 56m*	*11h 49m*				Fr, 5. Jan
Sa, 6. Jan		18:22 – 04:03*	*9h 41m*	AN+ *bis* M↗		02:44	12:12	06:10	*40m*	06:50	*41m*	07:32	*41m*	08:13	*8h 04m*	16:18	*41m*	17:00	*41m*	17:41	*40m*	18:22	*15h 54m*	*11h 48m*				Sa, 6. Jan
So, 7. Jan		18:23 – 05:25*	*11h 02m*	AN+ *bis* M↗		04:03	12:31	06:10	*40m*	06:50	*41m*	07:31	*41m*	08:13	*8h 06m*	16:19	*41m*	17:01	*41m*	17:42	*40m*	18:23	*15h 53m*	*11h 46m*				So, 7. Jan
Mo, 8. Jan		18:24 – 06:09*	*11h 45m*	AN+ *bis* AN−		05:25	12:57	06:10	*40m*	06:50	*41m*	07:31	*41m*	08:13	*8h 07m*	16:21	*41m*	17:02	*41m*	17:44	*40m*	18:24	*15h 51m*	*11h 45m*				Mo, 8. Jan
Di, 9. Jan		18:25 – 06:09*	*11h 44m*	AN+ *bis* AN−		06:45	13:37	06:09	*40m*	06:49	*41m*	07:31	*41m*	08:12	*8h 09m*	16:22	*41m*	17:03	*41m*	17:45	*40m*	18:25	*15h 49m*	*11h 44m*				Di, 9. Jan
Mi, 10. Jan		18:26 – 06:09*	*11h 42m*	AN+ *bis* AN−		07:56	14:36	06:09	*40m*	06:49	*41m*	07:30	*41m*	08:12	*8h 11m*	16:23	*41m*	17:05	*41m*	17:46	*40m*	18:26	*15h 47m*	*11h 42m*				Mi, 10. Jan
Do, 11. Jan		18:27 – 06:08*	*11h 41m*	AN+ *bis* AN−	●	08:51	15:54	06:09	*40m*	06:49	*41m*	07:30	*41m*	08:11	*8h 13m*	16:25	*41m*	17:06	*41m*	17:47	*40m*	18:27	*15h 45m*	*11h 41m*				Do, 11. Jan
Fr, 12. Jan		18:28 – 06:08*	*11h 39m*	AN+ *bis* AN−		09:29	17:24	06:08	*39m*	06:48	*41m*	07:29	*41m*	08:10	*8h 15m*	16:26	*41m*	17:07	*41m*	17:48	*39m*	18:28	*15h 43m*	*11h 39m*				Fr, 12. Jan
Sa, 13. Jan		18:58 – 06:07*	*11h 09m*	M↘ *bis* AN−		09:56	18:58	06:08	*39m*	06:48	*40m*	07:29	*40m*	08:10	*8h 17m*	16:28	*40m*	17:09	*40m*	17:50	*39m*	18:29	*15h 41m*	*11h 38m*				Sa, 13. Jan
So, 14. Jan		20:29 – 06:07*	*9h 37m*	M↘ *bis* AN−		10:15	20:29	06:07	*39m*	06:47	*40m*	07:28	*40m*	08:09	*8h 20m*	16:29	*40m*	17:10	*40m*	17:51	*39m*	18:31	*15h 39m*	*11h 36m*				So, 14. Jan
Mo, 15. Jan		21:57 – 06:06*	*8h 09m*	M↘ *bis* AN−		10:30	21:57	06:07	*39m*	06:47	*40m*	07:28	*40m*	08:08	*8h 22m*	16:31	*40m*	17:11	*40m*	17:52	*39m*	18:32	*15h 36m*	*11h 34m*				Mo, 15. Jan
Di, 16. Jan		23:22 – 06:06*	*6h 43m*	M↘ *bis* AN−		10:43	23:22	06:06	*39m*	06:46	*40m*	07:27	*40m*	08:07	*8h 24m*	16:32	*40m*	17:13	*40m*	17:53	*39m*	18:33	*15h 34m*	*11h 32m*				Di, 16. Jan
Mi, 17. Jan		00:46* – 06:05*	*5h 18m*	M↘ *bis* AN−		10:56	—:—	06:06	*39m*	06:46	*40m*	07:26	*40m*	08:07	*8h 27m*	16:34	*40m*	17:14	*40m*	17:55	*39m*	18:35	*15h 31m*	*11h 30m*				Mi, 17. Jan
Do, 18. Jan		02:10* – 06:04*	*3h 54m*	M↘ *bis* AN−	◐	11:10	00:46	06:05	*39m*	06:45	*40m*	07:25	*40m*	08:06	*8h 29m*	16:35	*40m*	17:16	*40m*	17:56	*39m*	18:36	*15h 29m*	*11h 28m*				Do, 18. Jan
Fr, 19. Jan		03:34* – 06:04*	*2h 30m*	M↘ *bis* AN−		11:26	02:10	06:04	*39m*	06:44	*40m*	07:25	*40m*	08:05	*8h 32m*	16:37	*40m*	17:17	*40m*	17:58	*39m*	18:37	*15h 26m*	*11h 26m*				Fr, 19. Jan
Sa, 20. Jan		04:54* – 06:03*	*1h 08m*	M↘ *bis* AN−		11:47	03:34	06:04	*39m*	06:43	*40m*	07:24	*39m*	08:04	*8h 34m*	16:39	*40m*	17:19	*40m*	17:59	*39m*	18:38	*15h 23m*	*11h 24m*				Sa, 20. Jan
So, 21. Jan		—:— – —:—	–	Mond stört		12:16	04:54	06:03	*39m*	06:42	*40m*	07:23	*39m*	08:03	*8h 37m*	16:40	*39m*	17:20	*40m*	18:00	*39m*	18:40	*15h 21m*	*11h 22m*				So, 21. Jan
Mo, 22. Jan		—:— – —:—	–	Mond stört		12:56	06:08	06:02	*39m*	06:42	*40m*	07:22	*39m*	08:01	*8h 40m*	16:42	*39m*	17:22	*40m*	18:02	*39m*	18:41	*15h 18m*	*11h 20m*				Mo, 22. Jan
Di, 23. Jan		—:— – —:—	–	Mond stört		13:49	07:09	06:01	*39m*	06:41	*40m*	07:21	*39m*	08:00	*8h 43m*	16:44	*39m*	17:23	*40m*	18:03	*39m*	18:43	*15h 15m*	*11h 17m*				Di, 23. Jan
Mi, 24. Jan		—:— – —:—	–	Mond stört		14:54	07:56	06:00	*39m*	06:40	*39m*	07:20	*39m*	07:59	*8h 46m*	16:45	*39m*	17:25	*39m*	18:05	*39m*	18:44	*15h 12m*	*11h 15m*				Mi, 24. Jan
Do, 25. Jan		—:— – —:—	–	Mond stört	○	16:07	08:29	06:00	*39m*	06:39	*39m*	07:19	*39m*	07:58	*8h 49m*	16:47	*39m*	17:26	*39m*	18:06	*39m*	18:45	*15h 09m*	*11h 13m*				Do, 25. Jan
Fr, 26. Jan		—:— – —:—	–	Mond stört		17:22	08:52	05:59	*39m*	06:38	*39m*	07:17	*39m*	07:57	*8h 52m*	16:49	*39m*	17:28	*39m*	18:08	*39m*	18:47	*15h 06m*	*11h 10m*				Fr, 26. Jan
Sa, 27. Jan		—:— – —:—	–	Mond stört		18:35	09:09	05:58	*39m*	06:37	*39m*	07:16	*38m*	07:55	*8h 55m*	16:50	*39m*	17:30	*39m*	18:09	*39m*	18:48	*15h 03m*	*11h 08m*				Sa, 27. Jan
So, 28. Jan		18:50 – 19:46	*56m*	AN+ *bis* M↗		19:46	09:22	05:56	*39m*	06:36	*39m*	07:15	*38m*	07:54	*8h 58m*	16:52	*38m*	17:31	*39m*	18:11	*39m*	18:50	*15h 00m*	*11h 05m*				So, 28. Jan
Mo, 29. Jan		18:51 – 20:56	*2h 04m*	AN+ *bis* M↗		20:56	09:33	05:55	*39m*	06:34	*39m*	07:14	*38m*	07:53	*9h 01m*	16:54	*38m*	17:33	*39m*	18:12	*39m*	18:51	*14h 57m*	*11h 02m*				Mo, 29. Jan
Di, 30. Jan		18:53 – 22:05	*3h 12m*	AN+ *bis* M↗		22:05	09:43	05:54	*38m*	06:33	*39m*	07:13	*38m*	07:51	*9h 04m*	16:56	*38m*	17:34	*39m*	18:14	*39m*	18:53	*14h 53m*	*11h 00m*				Di, 30. Jan
Mi, 31. Jan		18:54 – 23:15	*4h 20m*	AN+ *bis* M↗		23:15	09:53	05:53	*38m*	06:32	*39m*	07:11	*38m*	07:50	*9h 07m*	16:58	*38m*	17:36	*39m*	18:15	*38m*	18:54	*14h 50m*	*10h 57m*				Mi, 31. Jan
Do, 1. Feb		18:56 – 00:27*	*5h 30m*	AN+ *bis* M↗		—:—	10:04	05:52	*38m*	06:31	*39m*	07:10	*38m*	07:48	*9h 11m*	16:59	*38m*	17:38	*39m*	18:17	*38m*	18:56	*14h 47m*	*10h 54m*				Do, 1. Feb
Fr, 2. Feb		18:57 – 01:42*	*6h 44m*	AN+ *bis* M↗		00:27	10:16	05:51	*38m*	06:29	*39m*	07:09	*38m*	07:47	*9h 14m*	17:01	*38m*	17:39	*39m*	18:19	*38m*	18:57	*14h 43m*	*10h 51m*				Fr, 2. Feb
Sa, 3. Feb		18:59 – 03:01*	*8h 01m*	AN+ *bis* M↗	◑	01:42	10:32	05:49	*38m*	06:28	*39m*	07:07	*38m*	07:45	*9h 17m*	17:03	*38m*	17:41	*39m*	18:20	*38m*	18:59	*14h 40m*	*10h 49m*				Sa, 3. Feb
So, 4. Feb		19:00 – 04:20*	*9h 19m*	AN+ *bis* M↗		03:01	10:54	05:48	*38m*	06:27	*38m*	07:06	*37m*	07:44	*9h 21m*	17:05	*37m*	17:43	*38m*	18:22	*38m*	19:00	*14h 37m*	*10h 46m*				So, 4. Feb