Mond- und Dämmerungstabelle 2023

für die visuelle Deep-Sky-Beobachtung

Münster (Westfalen) 51.9629° N 7.6287° E

Berechnung: pyEphem
Textsatz: LaTeX

Atmosphären-Einstellungen in pyEphem

```
Standort.pressure = 1010.0
Standort.horizon = '0:00:00.0'
```

Alle Zeitangaben beziehen sich auf den in der jeweiligen Zeile angegeben Kalendertag. Liegt ein Ereignis bereits nach Mitternacht, also schon am Folgetag, ist die Zeitangabe mit einem * gekennzeichnet, z.B.: 00:20*.

Spalte 1 Kalendertag.

Spalte 2 Bei »MESZ« sind alle Zeitangaben in dieser Zeile in Mitteleuropäischer Sommerzeit, ansonsten standardmäßig in MEZ.

Spalte 3 Die für Deep-Sky-Beobachtungen nutzbare Zeitspanne: Es ist astronomisch dunkel (Sonne steht tiefer als $-18°$) und kein Mond stört.

Spalte 4 Dauer der für Deep-Sky-Beobachtungen nutzbaren Zeitspanne.

Spalte 5 Ereignisse, die die für Deep-Sky-Beobachtungen nutzbare Zeitspanne begrenzen: AN_+ (*Einbruch der astronomischen Nacht = Ende der astr. Abenddämmerung*), $M_\searrow$ (*Monduntergang*), AN_- (*Ende der astronomischen Nacht = Beginn der astr. Morgendämmerung*), $M_\nearrow$ (*Mondaufgang*), Astr. MD (*Astronomische Mitternachtsdämmerung*), Naut. MD (*Nautische Mitternachtsdämmerung*).

Spalte 6 Mondphase.

Spalte 7 Mondaufgang.

Spalte 8 Monduntergang.

Spalte 9 Beginn der astr. Morgendämmerung (Sonnenhöhe = $-18°_\nearrow$).

Spalte 10 Dauer der astr. Morgendämmerung.

Spalte 11 Beginn der naut. Morgendämmerung (Sonnenhöhe = $-12°_\nearrow$).

Spalte 12 Dauer der naut. Morgendämmerung.

Spalte 13 Beginn der bürg. Morgendämmerung (Sonnenhöhe = $-6°_\nearrow$).

Spalte 14 Dauer der bürg. Morgendämmerung.

Spalte 15 Sonnenaufgang.

Spalte 16 Taglänge.

Spalte 17 Sonnenuntergang.

Spalte 18 Dauer der bürg. Abenddämmerung.

Spalte 19 Ende der bürg. Abenddämmerung (Sonnenhöhe = $-6°_\searrow$).

Spalte 20 Dauer der naut. Abenddämmerung.

Spalte 21 Ende der naut. Abenddämmerung (Sonnenhöhe = $-12°_\searrow$).

Spalte 22 Dauer der astr. Abenddämmerung.

Spalte 23 Ende der astr. Abenddämmerung (Sonnenhöhe = $-18°_\searrow$).

Spalte 24 Länge der Nacht.

Spalte 25 Länge der astr. Nacht.

Für Beobachter, die zu Zeiten der Mitternachtsdämmerung während der astr. Dämmerung beoachten möchten:

Spalte 26 Nutzbare Zeitspanne: Es ist »nautisch dunkel« (Sonne steht tiefer als $-12°$) und kein Mond stört.

Spalte 27 Dauer der in Spalte 26 angegebenen Zeitspanne.

Spalte 28 Ereignisse, die die nutzbare Zeitspanne begrenzen: ND_+ (*Beginn der »naut. Dunkelheit« = Ende der naut. Abenddämmerung*), $M_\searrow$ (*Monduntergang*), ND_- (*Ende der »naut. Dunkelheit« = Beginn der naut. Morgendämmerung*), $M_\nearrow$ (*Mondaufgang*), Naut. MD (*Nautische Mitternachtsdämmerung*).

Spalte 29 Identisch zu Spalte 1.

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